certify_p17_05_01_reference_208204_fixed_200601221550/
certify_p17_05_01_run_208204_certification_200512011817

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Page 3: Tracks Hits (All)
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Page 5: Tracking (Efficiency - InJets)
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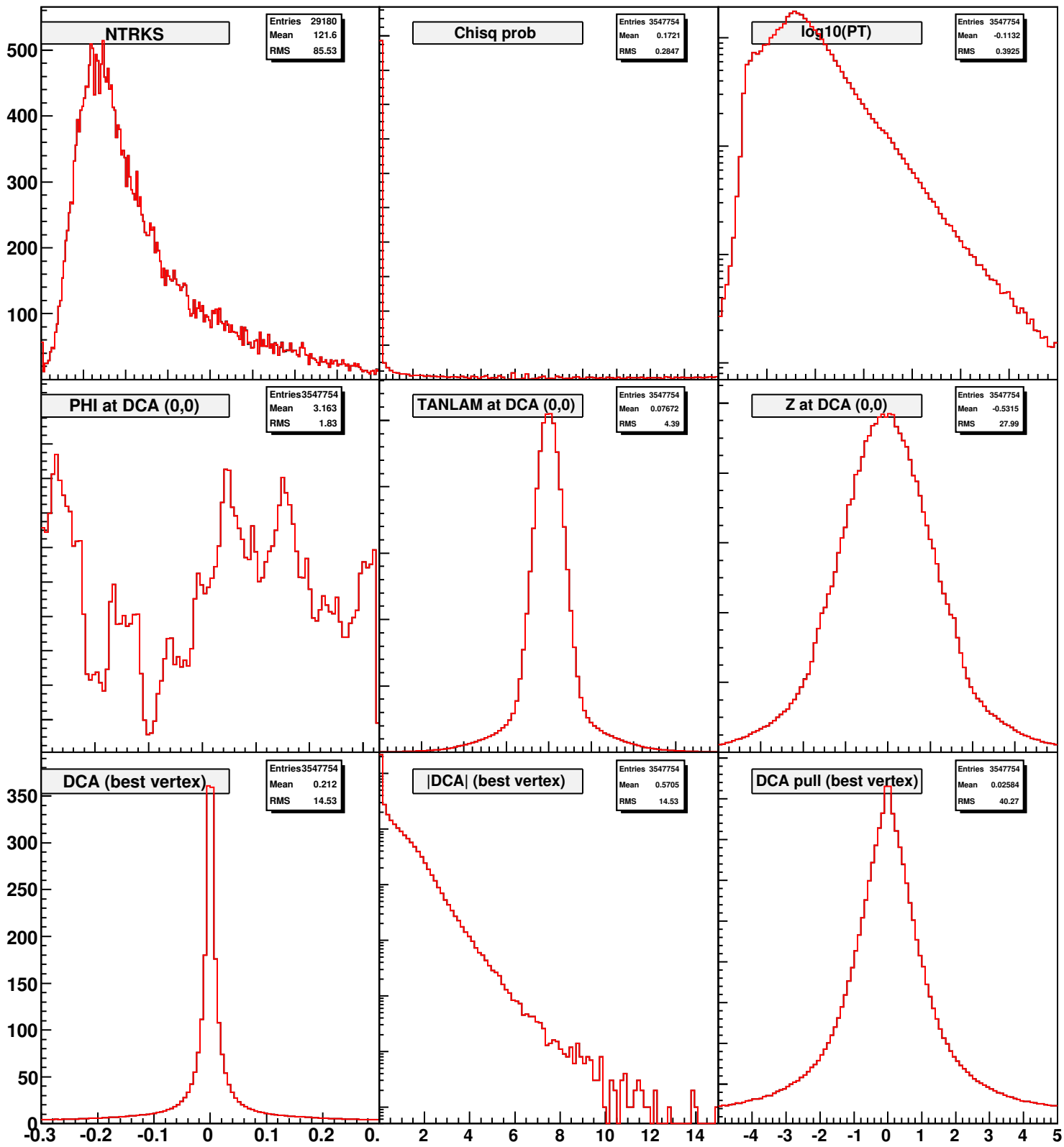
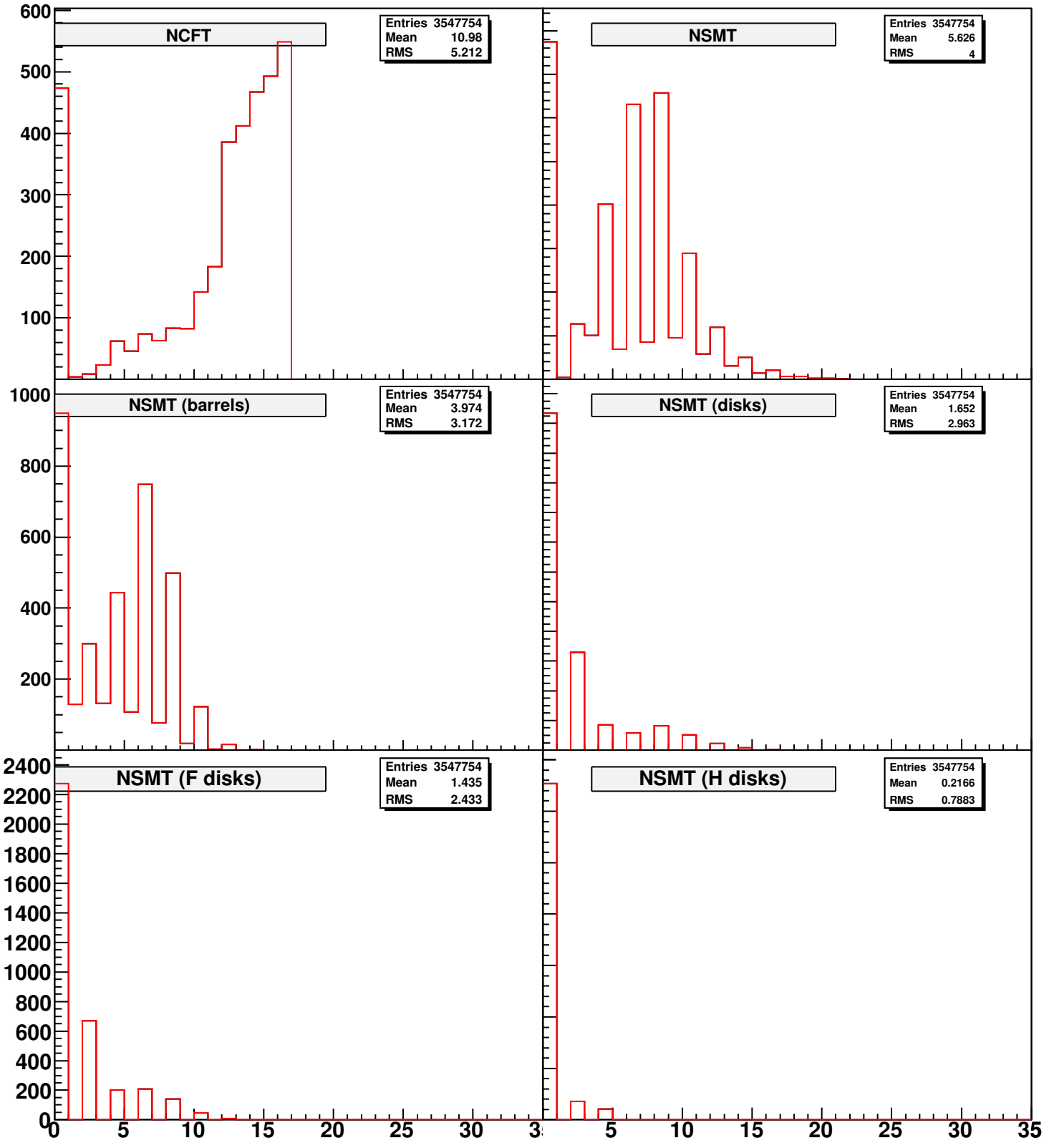
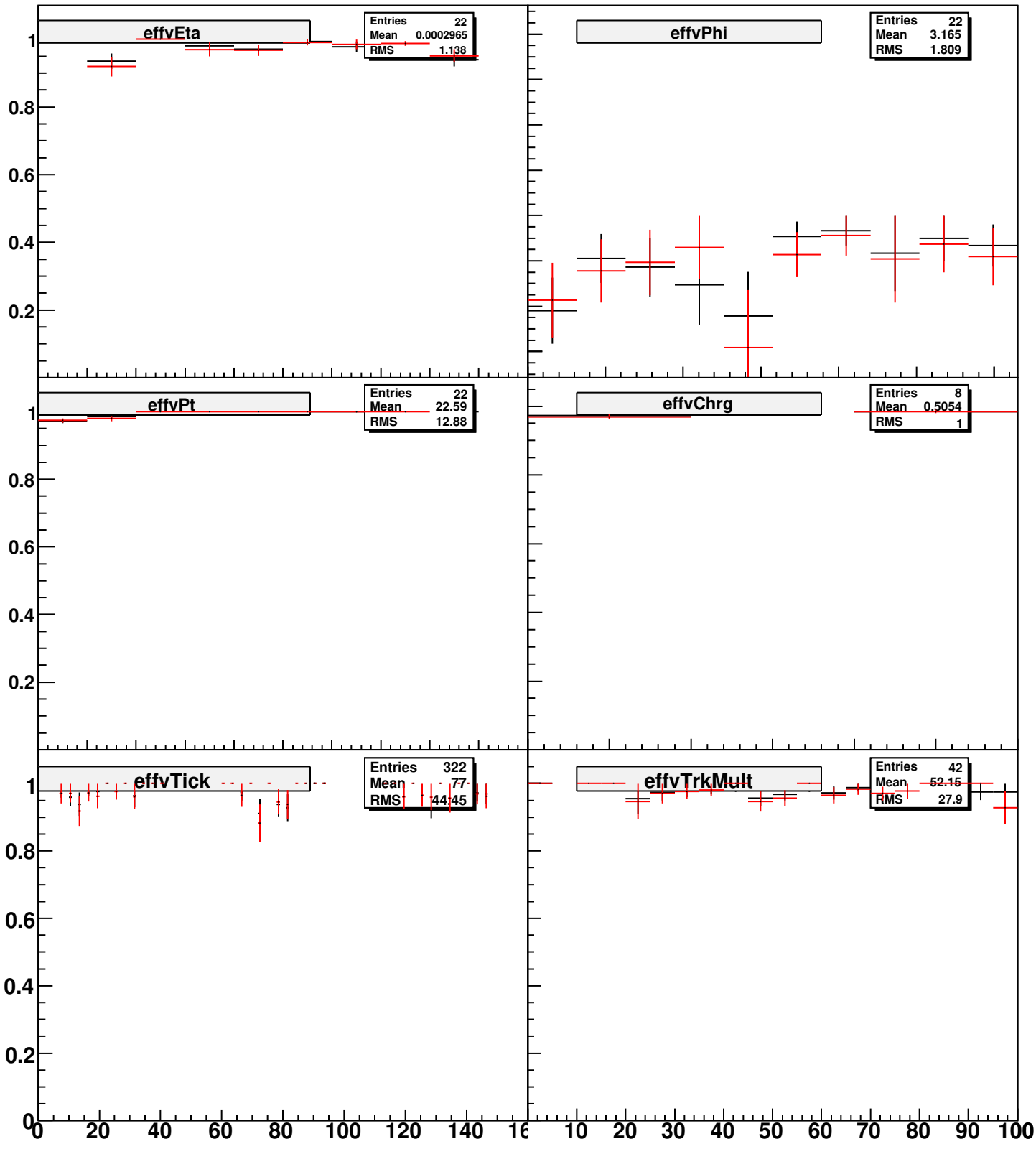
RecoCert_Plots (Index)

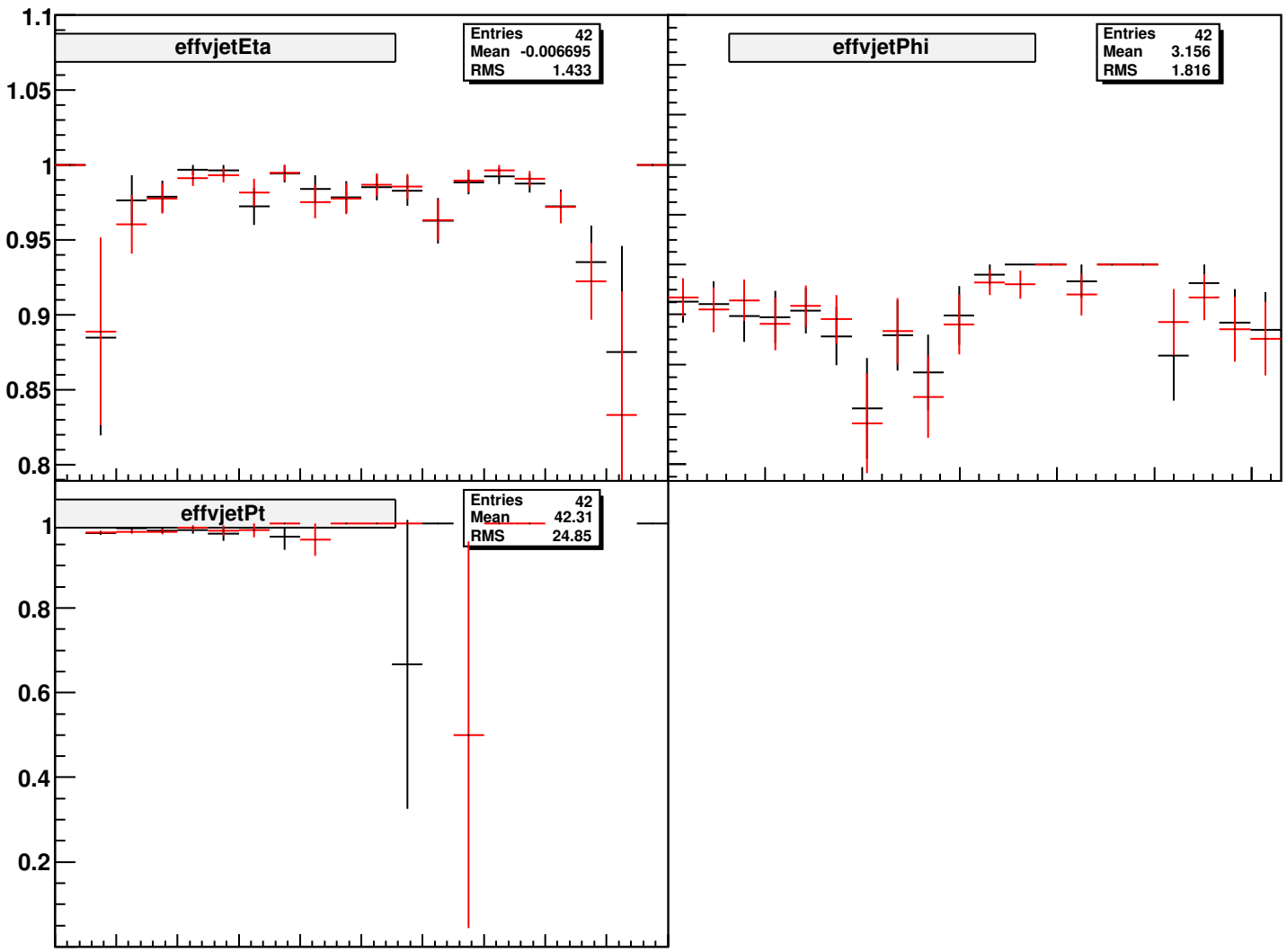

NTRKS
Entries 29180
Mean 121.6
RMS 85.53
Chisq prob
Entries 3547754
Mean 0.1721
RMS 0.2847
log10(PT)
Entries 3547754
Mean -0.1132
RMS 0.3925
PHI at DCA (0,0)
Entries 3547754
Mean 3.163
RMS 1.83
TANLAM at DCA (0,0)
Entries 3547754
Mean 0.07672
RMS 4.39
Z at DCA (0,0)
Entries 3547754
Mean -0.5315
RMS 27.99
DCA (best vertex)
Entries 3547754
Mean 0.212
RMS 14.53
|DCA| (best vertex)
Entries 3547754
Mean 0.5705
RMS 14.53
DCA pull (best vertex)
Entries 3547754
Mean 0.02584
RMS 40.27

Tracks (All)

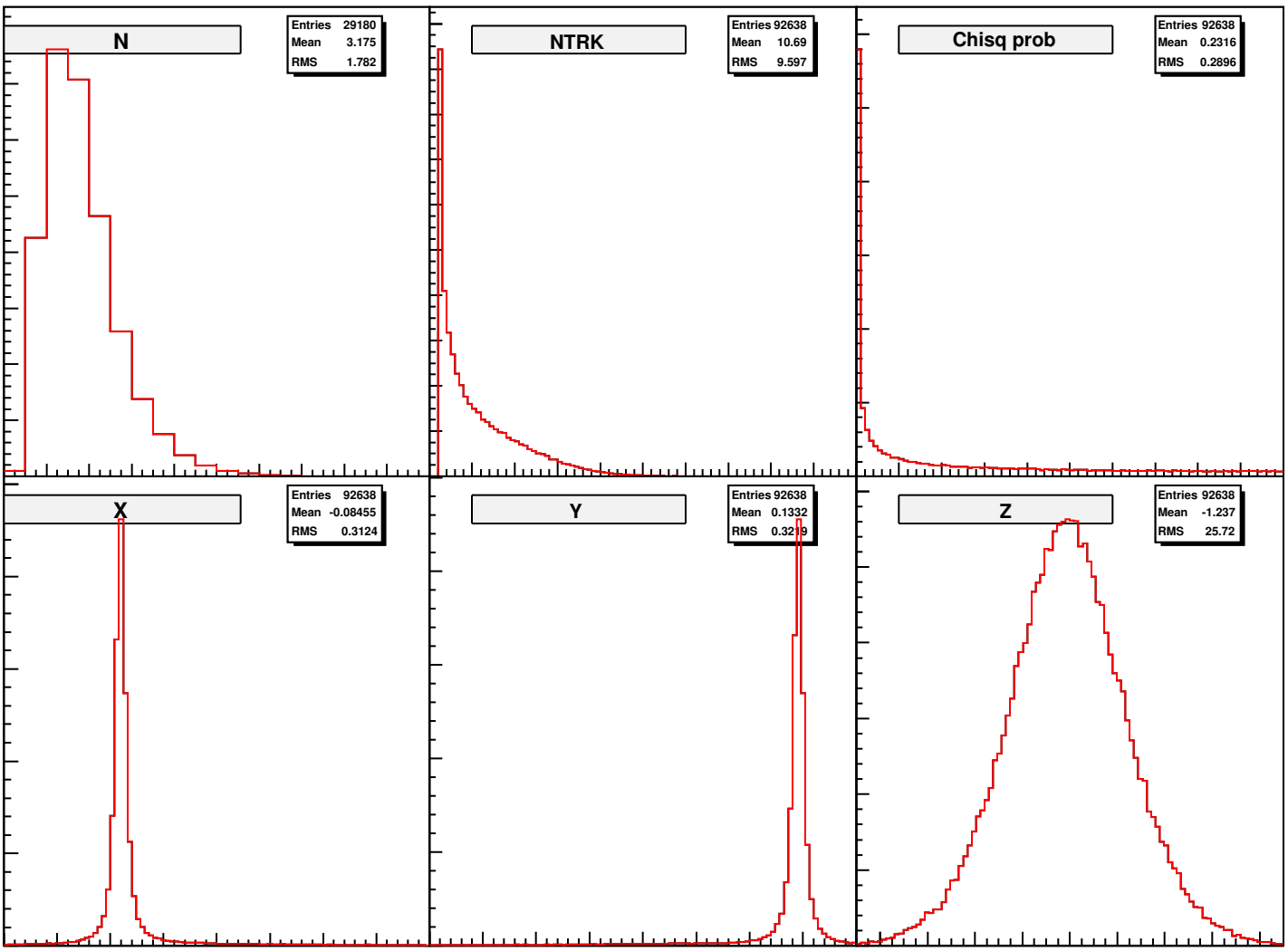

NCFT
Entries 3547754
Mean 10.98
RMS 5.212
NSMT
Entries 3547754
Mean 5.626
RMS 4
NSMT (barrels)
Entries 3547754
Mean 3.974
RMS 3.172
NSMT (disks)
Entries 3547754
Mean 1.652
RMS 2.963
NSMT (F disks)
Entries 3547754
Mean 1.435
RMS 2.433
NSMT (H disks)
Entries 3547754
Mean 0.2166
RMS 0.7883
Track Hits (All)



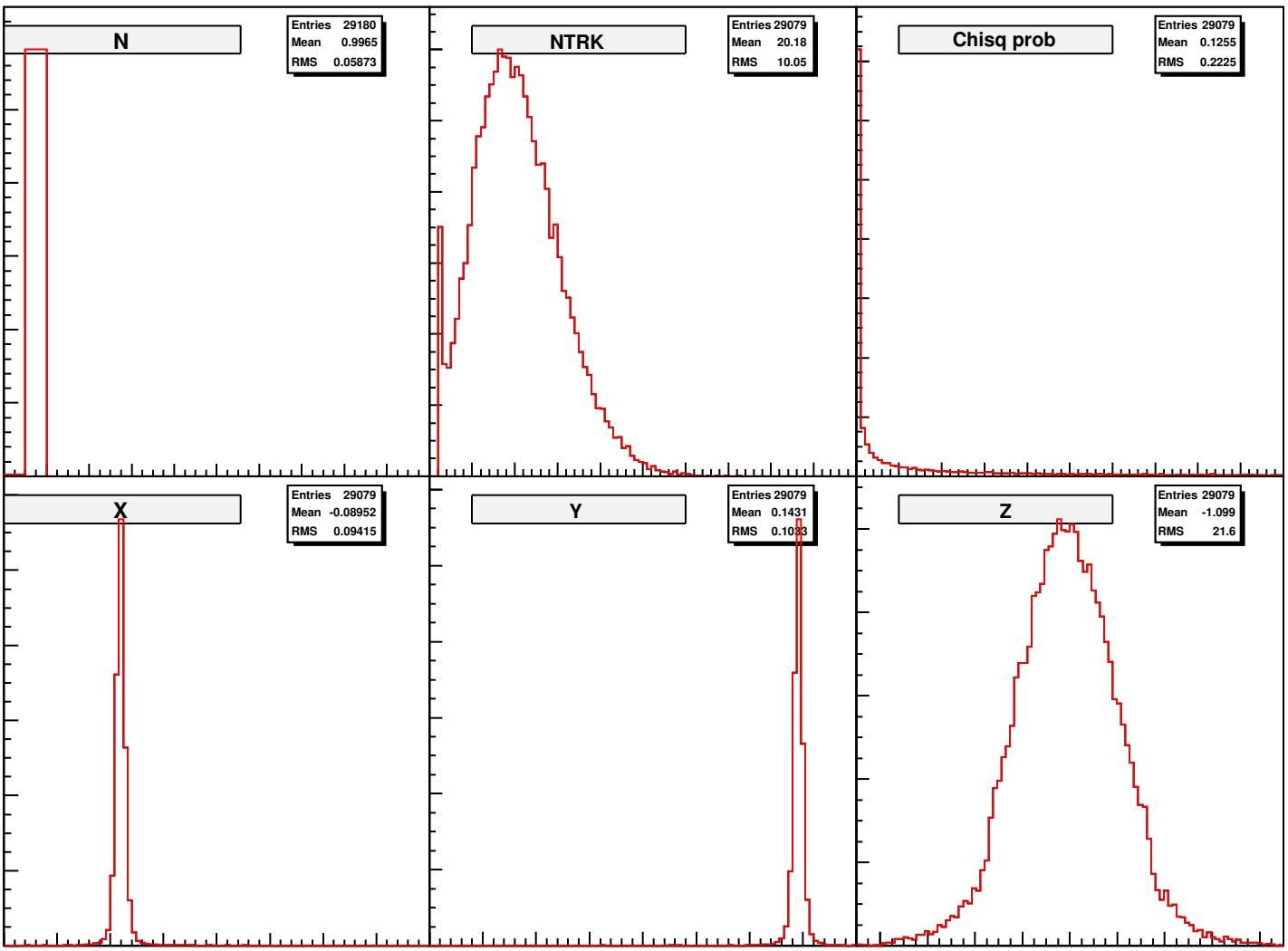
Tracking (Efficiency-Isolated)



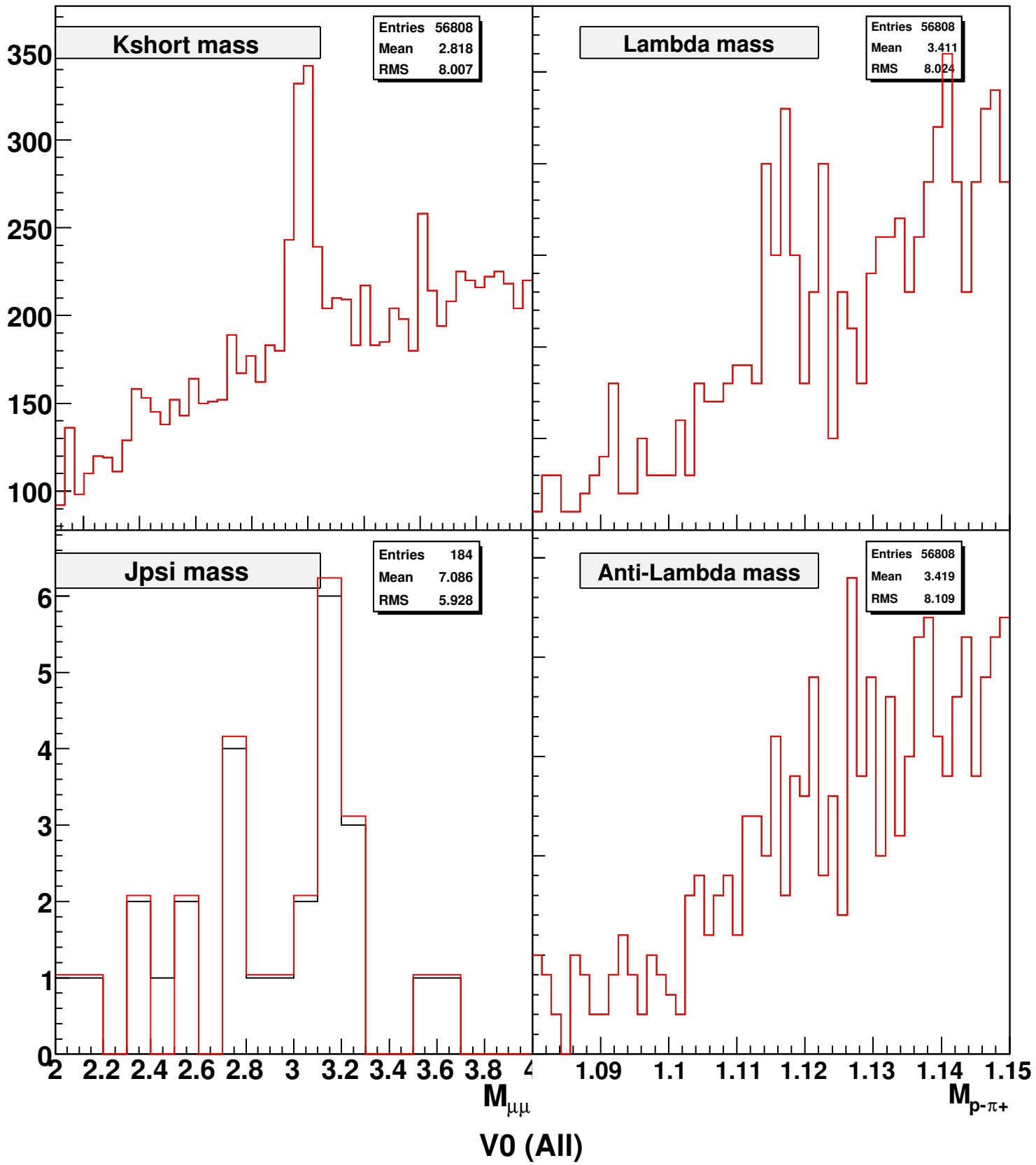
Tracking (Efficiency-InJets)

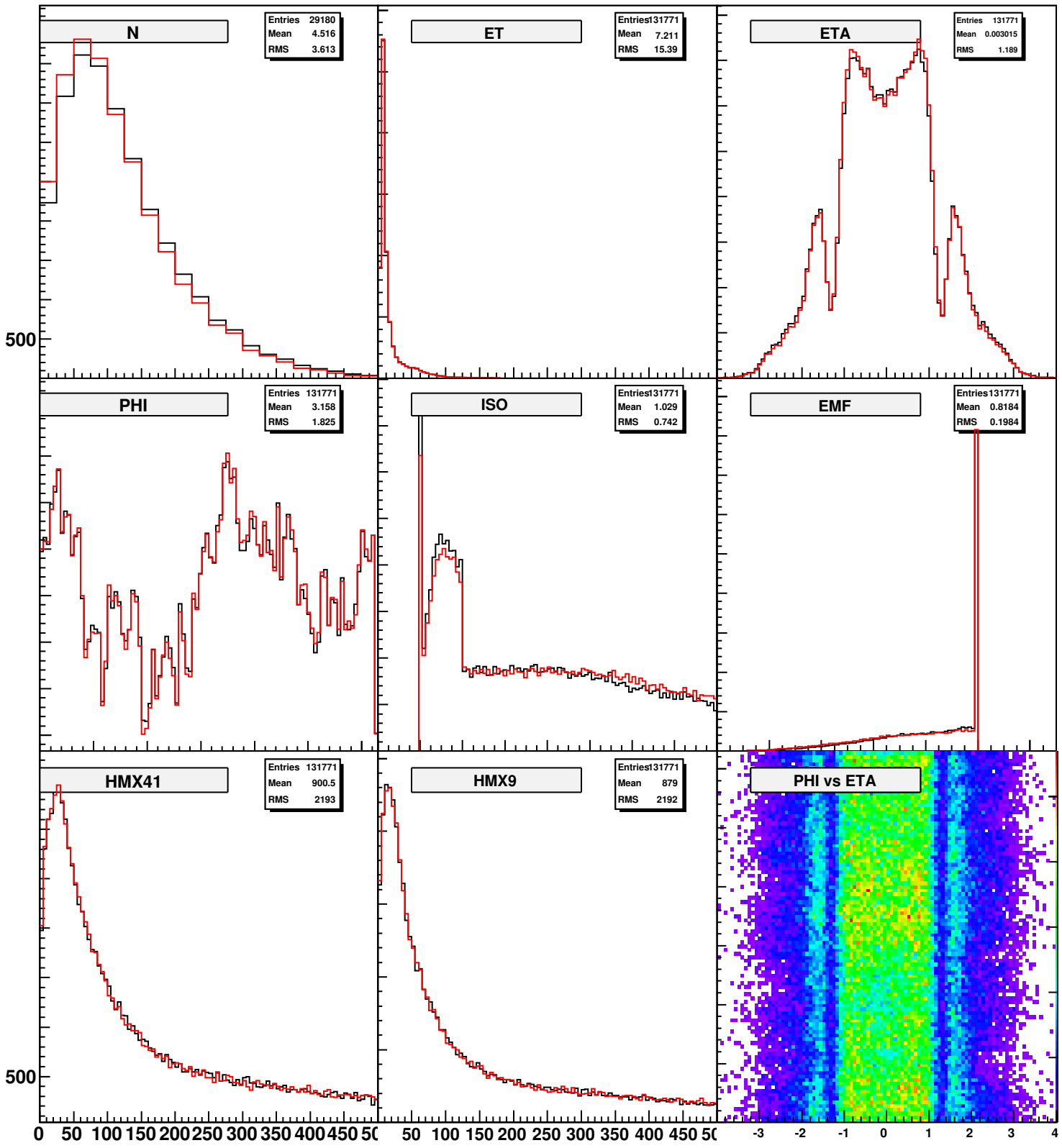


Vertices (Primary - all candidates)

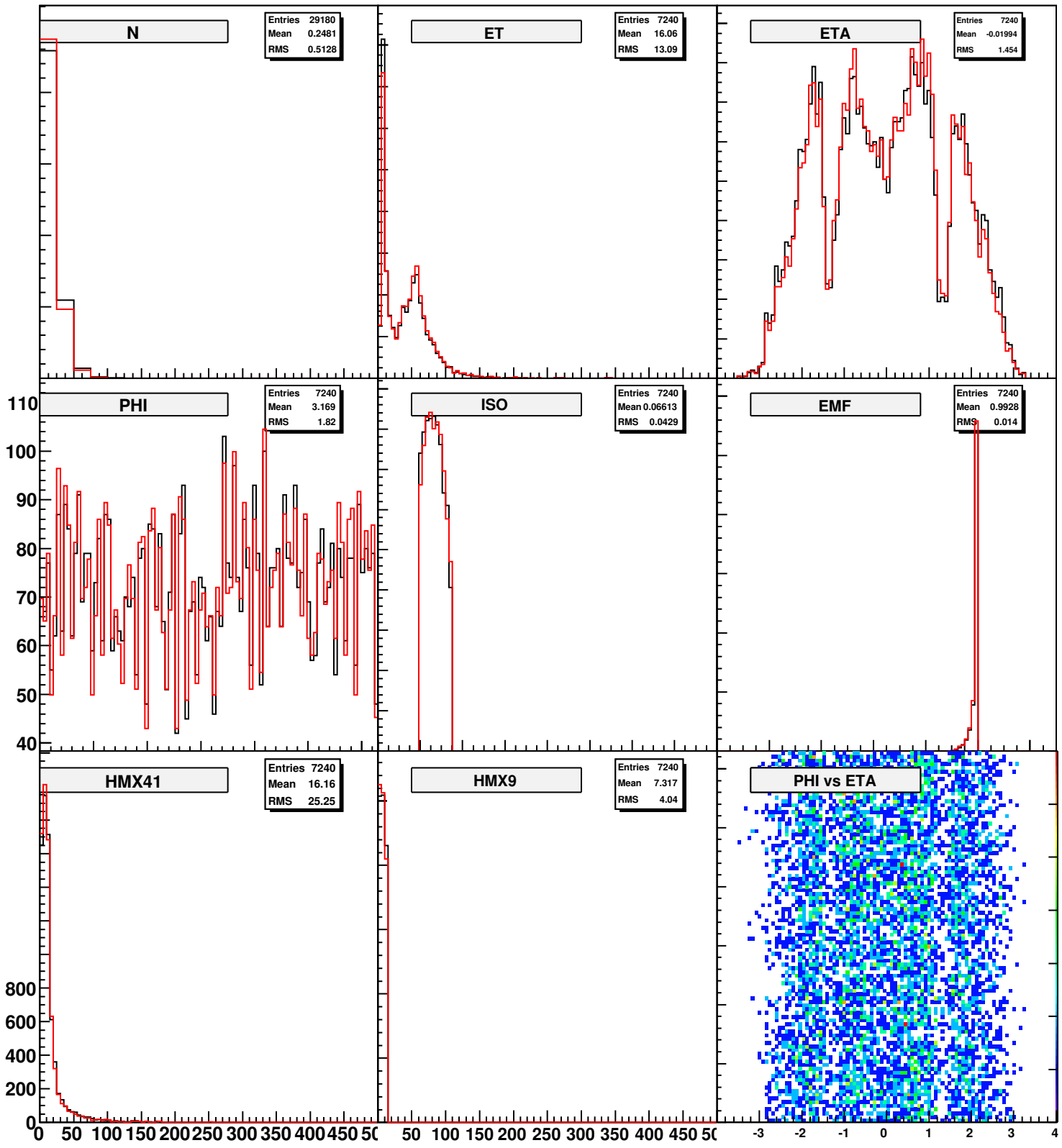


Vertices (Primary - best)

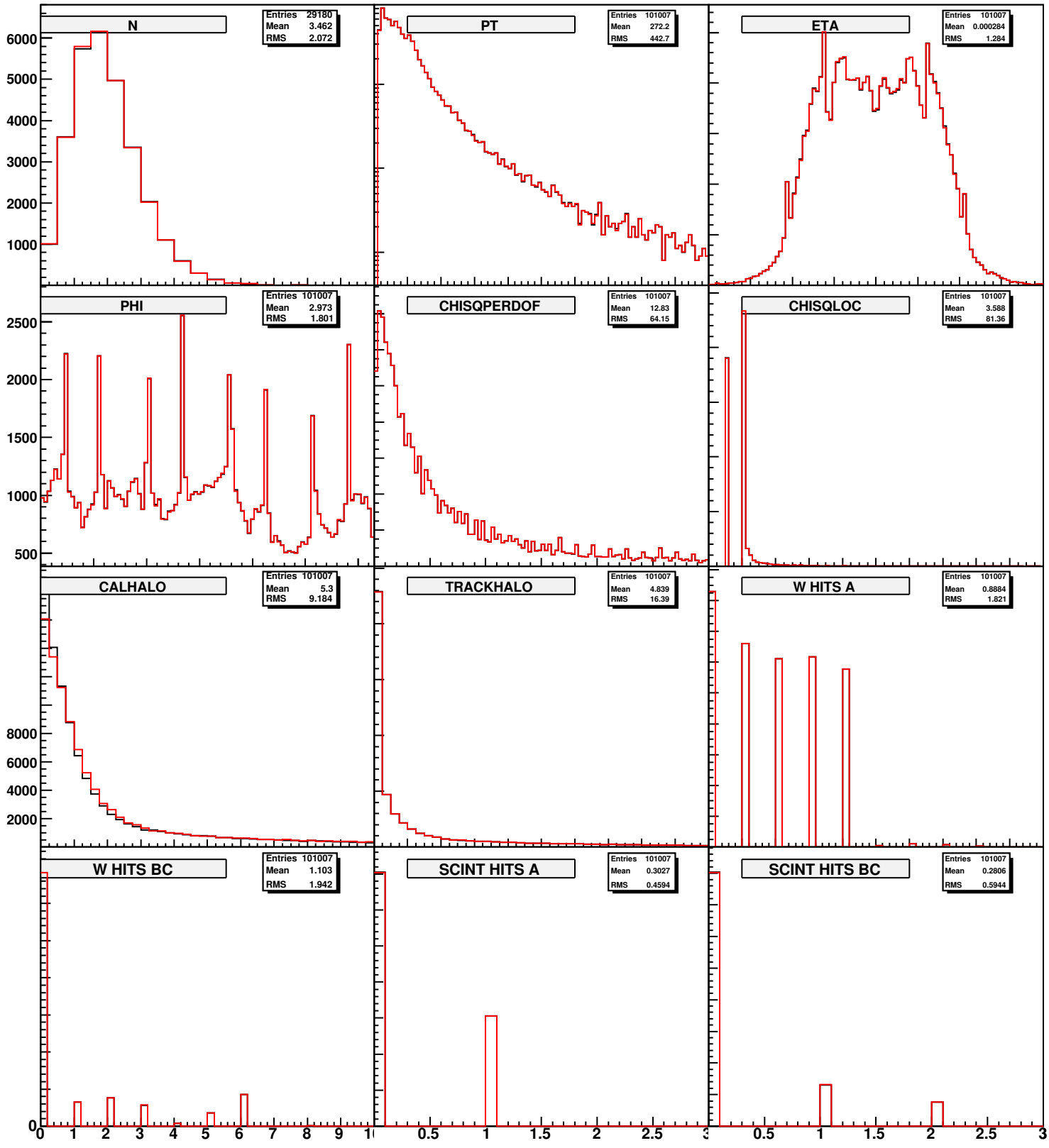

Kshort mass
Entries 56808
Mean 2.818
RMS 8.007
Lambda mass
Entries 56808
Mean 3.411
RMS 8.024
Jpsi mass
Entries 184
Mean 7.086
RMS 5.928
Anti-Lambda mass
Entries 56808
Mean 3.419
RMS 8.109
M$_{\mu\mu}$
M$_{p\text{-}\pi+}$
V0 (All)



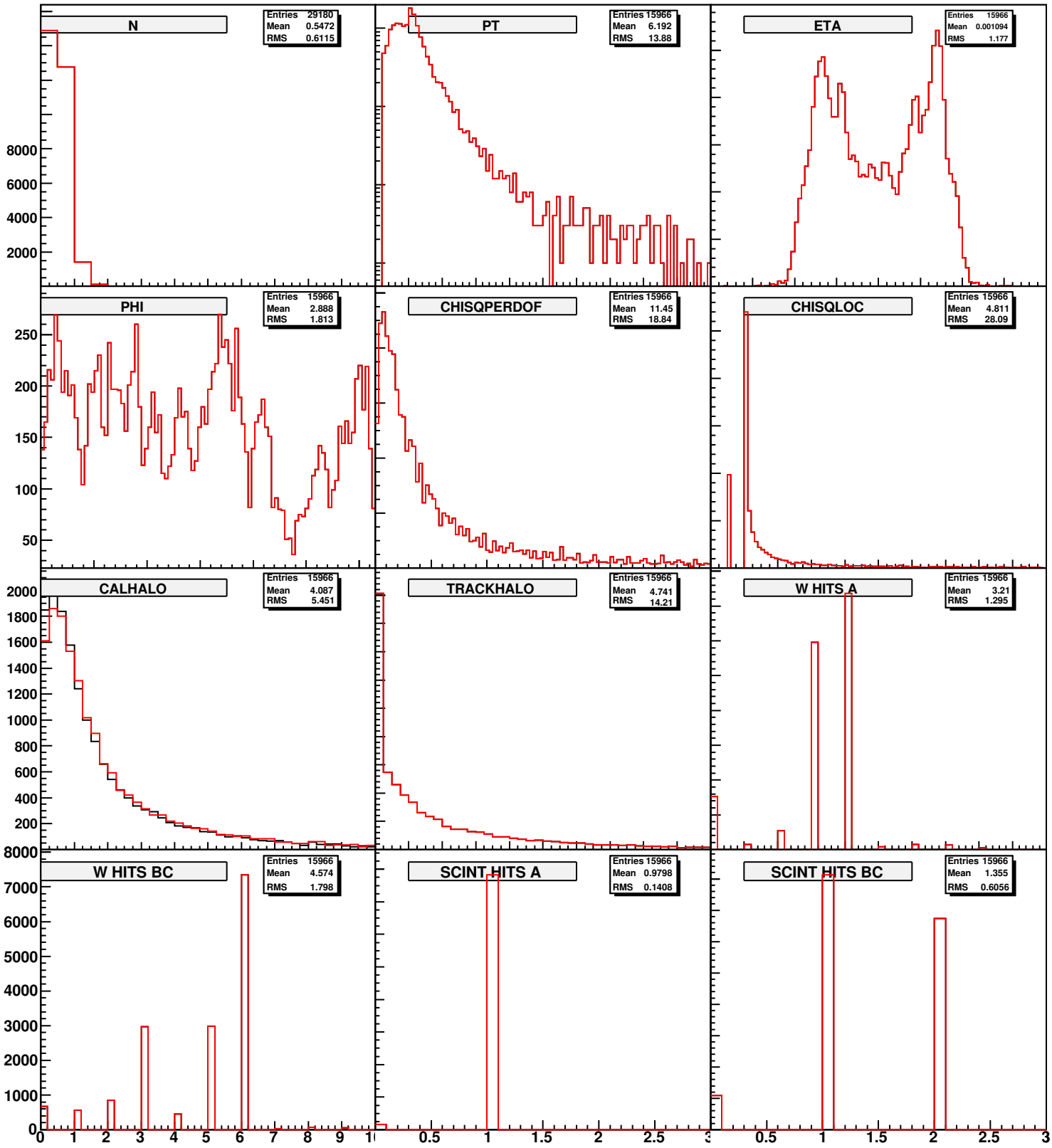
Electrons (SCONE All)



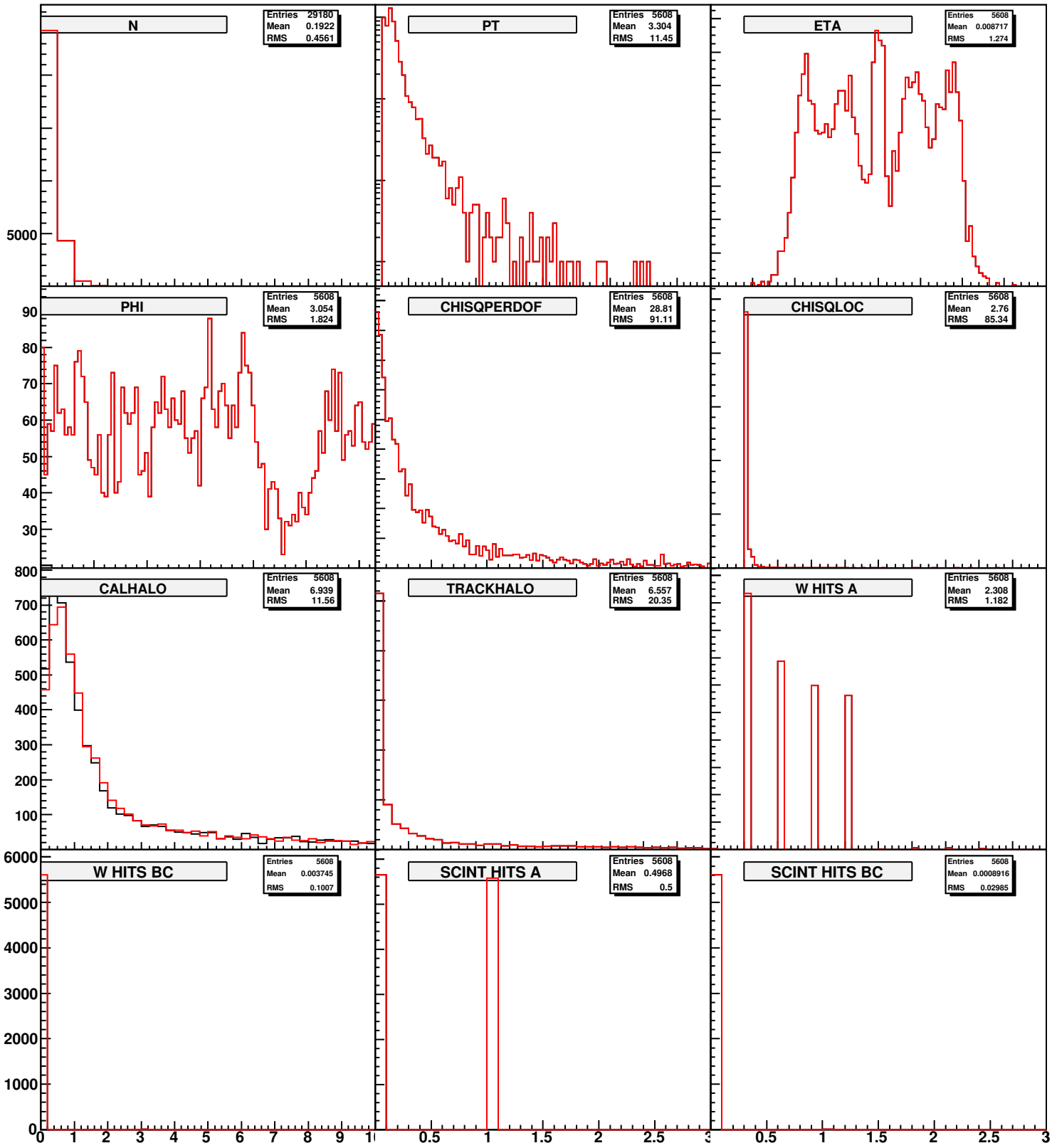
Electrons (SCONE Tight)


N
Entries 29180
Mean 3.462
RMS 2.072
PT
Entries 101007
Mean 272.2
RMS 442.7
ETA
Entries 101007
Mean 0.000284
RMS 1.284
PHI
Entries 101007
Mean 2.973
RMS 1.801
CHISQPERDOF
Entries 101007
Mean 12.83
RMS 64.15
CHISQLOC
Entries 101007
Mean 3.588
RMS 81.36
CALHALO
Entries 101007
Mean 5.3
RMS 9.184
TRACKHALO
Entries 101007
Mean 4.839
RMS 16.39
W HITS A
Entries 101007
Mean 0.8884
RMS 1.821
W HITS BC
Entries 101007
Mean 1.103
RMS 1.942
SCINT HITS A
Entries 101007
Mean 0.3027
RMS 0.4594
SCINT HITS BC
Entries 101007
Mean 0.2806
RMS 0.5944

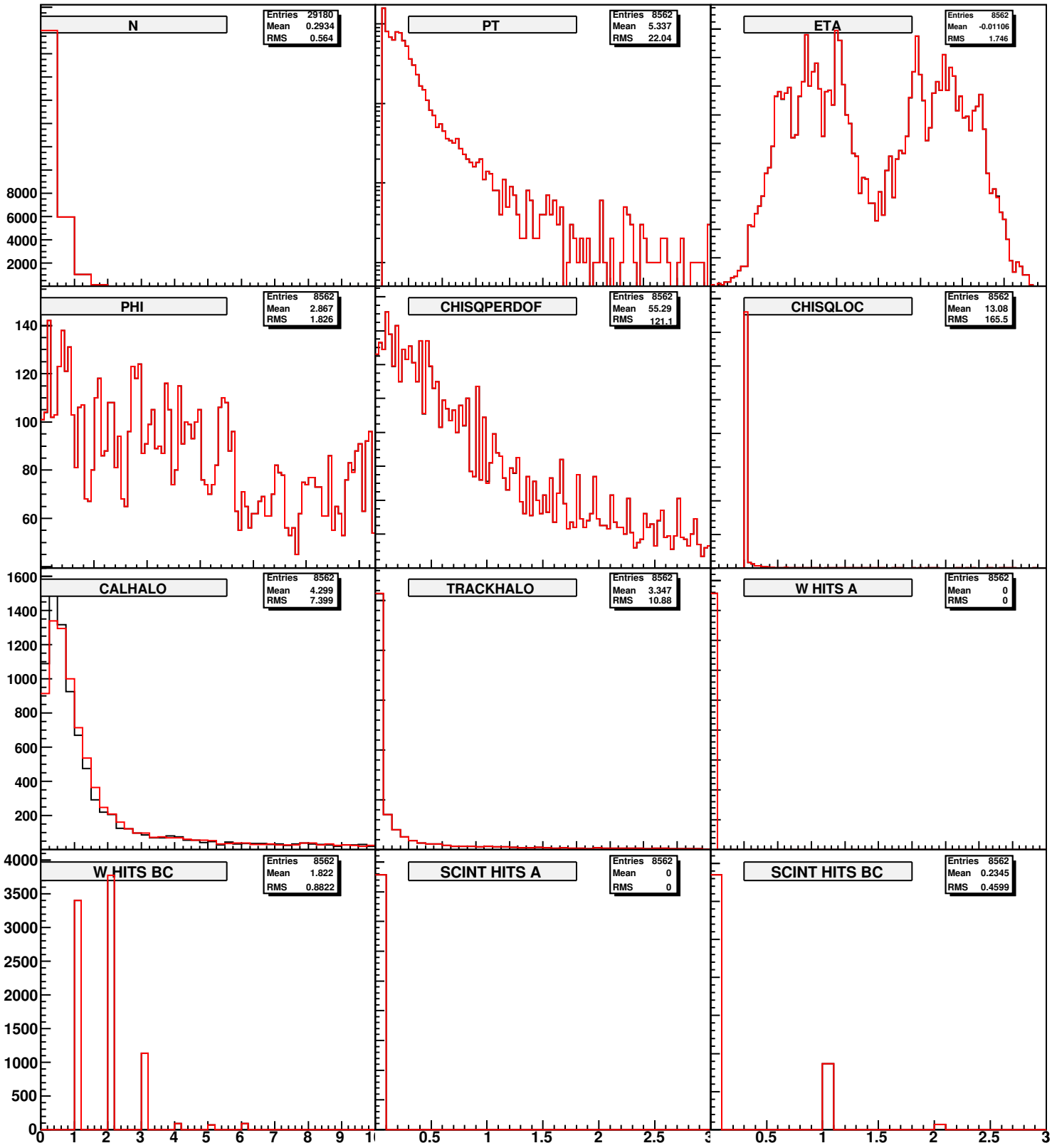
Muons (All)



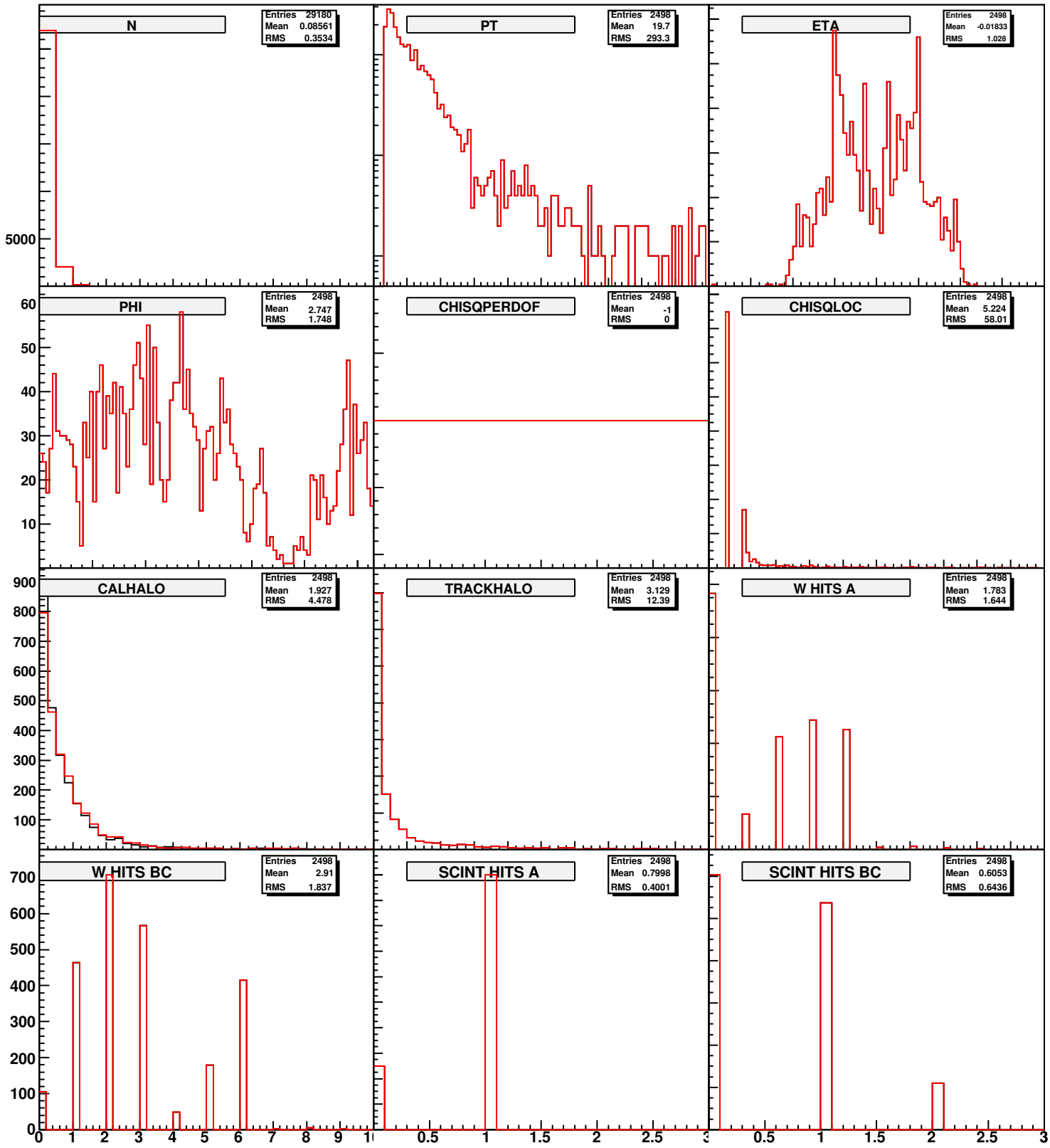
Muons (Matched)


N
Entries 29180
Mean 0.1922
RMS 0.4561
PT
Entries 5608
Mean 3.304
RMS 11.45
ETA
Entries 5608
Mean 0.008717
RMS 1.274
PHI
Entries 5608
Mean 3.054
RMS 1.824
CHISQPERDOF
Entries 5608
Mean 28.81
RMS 91.11
CHISQLOC
Entries 5608
Mean 2.76
RMS 85.34
CALHALO
Entries 5608
Mean 6.939
RMS 11.56
TRACKHALO
Entries 5608
Mean 6.557
RMS 20.35
W HITS A
Entries 5608
Mean 2.308
RMS 1.182
W HITS BC
Entries 5608
Mean 0.003745
RMS 0.1007
SCINT HITS A
Entries 5608
Mean 0.4968
RMS 0.5
SCINT HITS BC
Entries 5608
Mean 0.0008916
RMS 0.02985

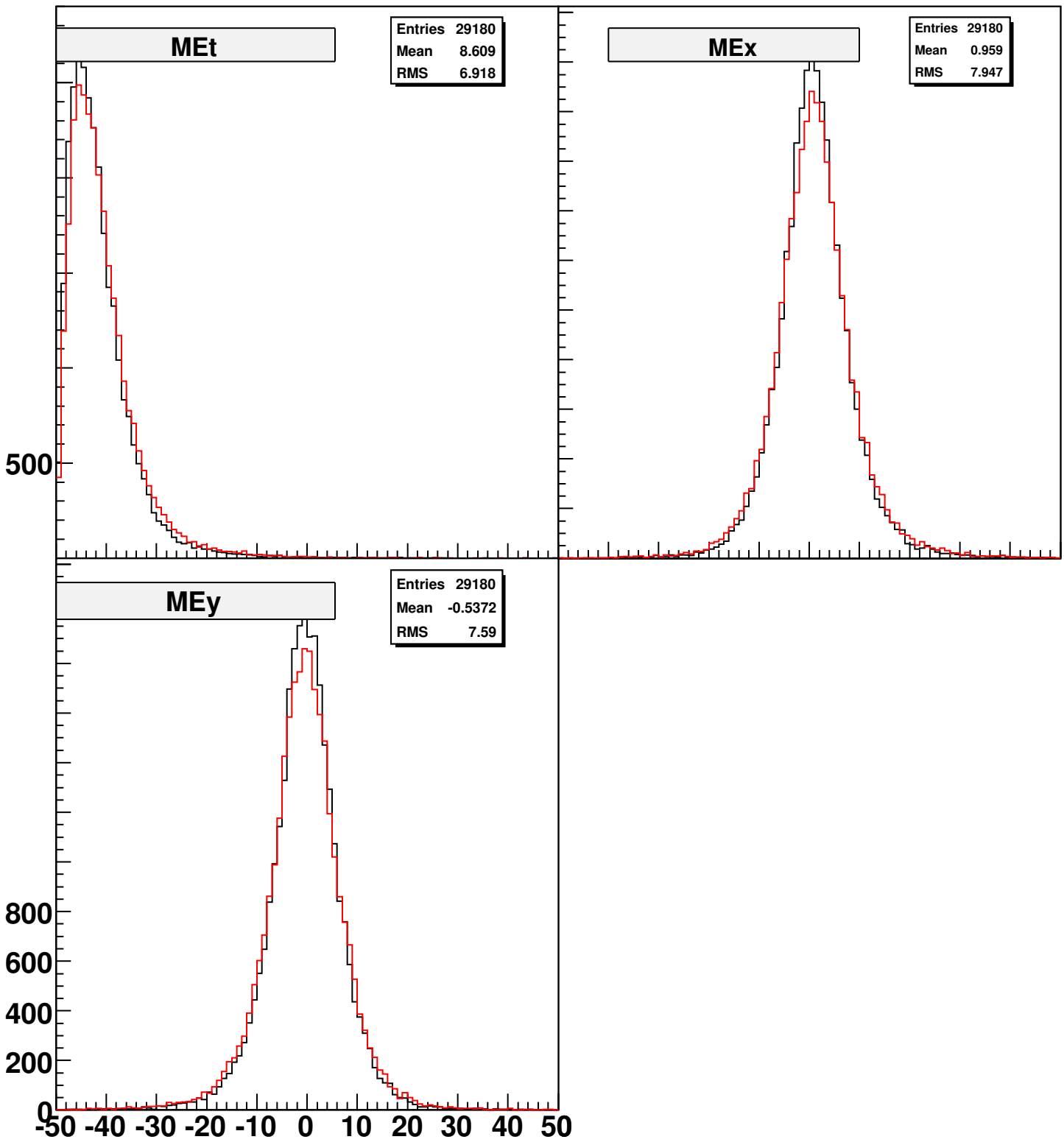
Muons (Astub)

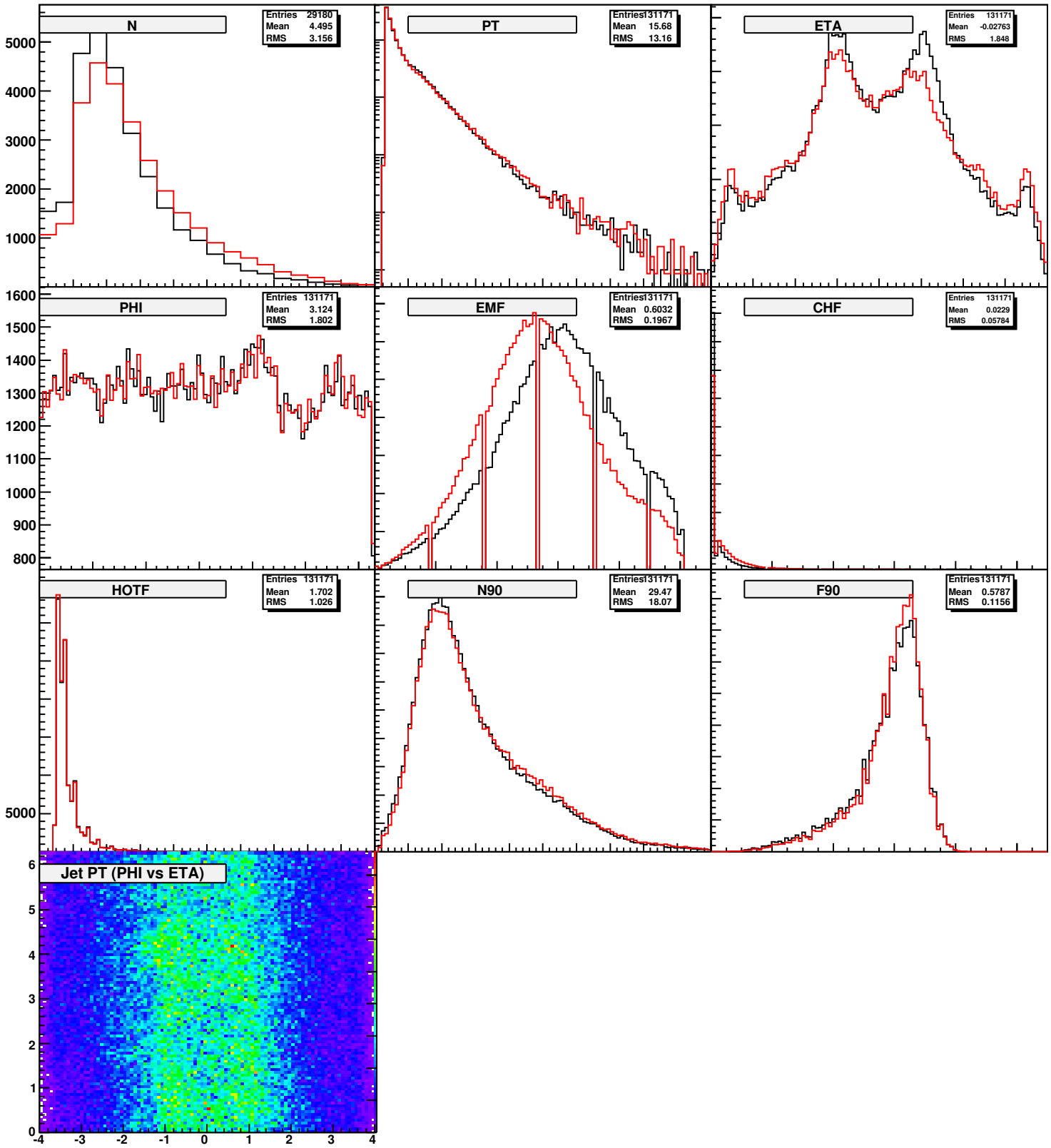


Muons (BCstub)

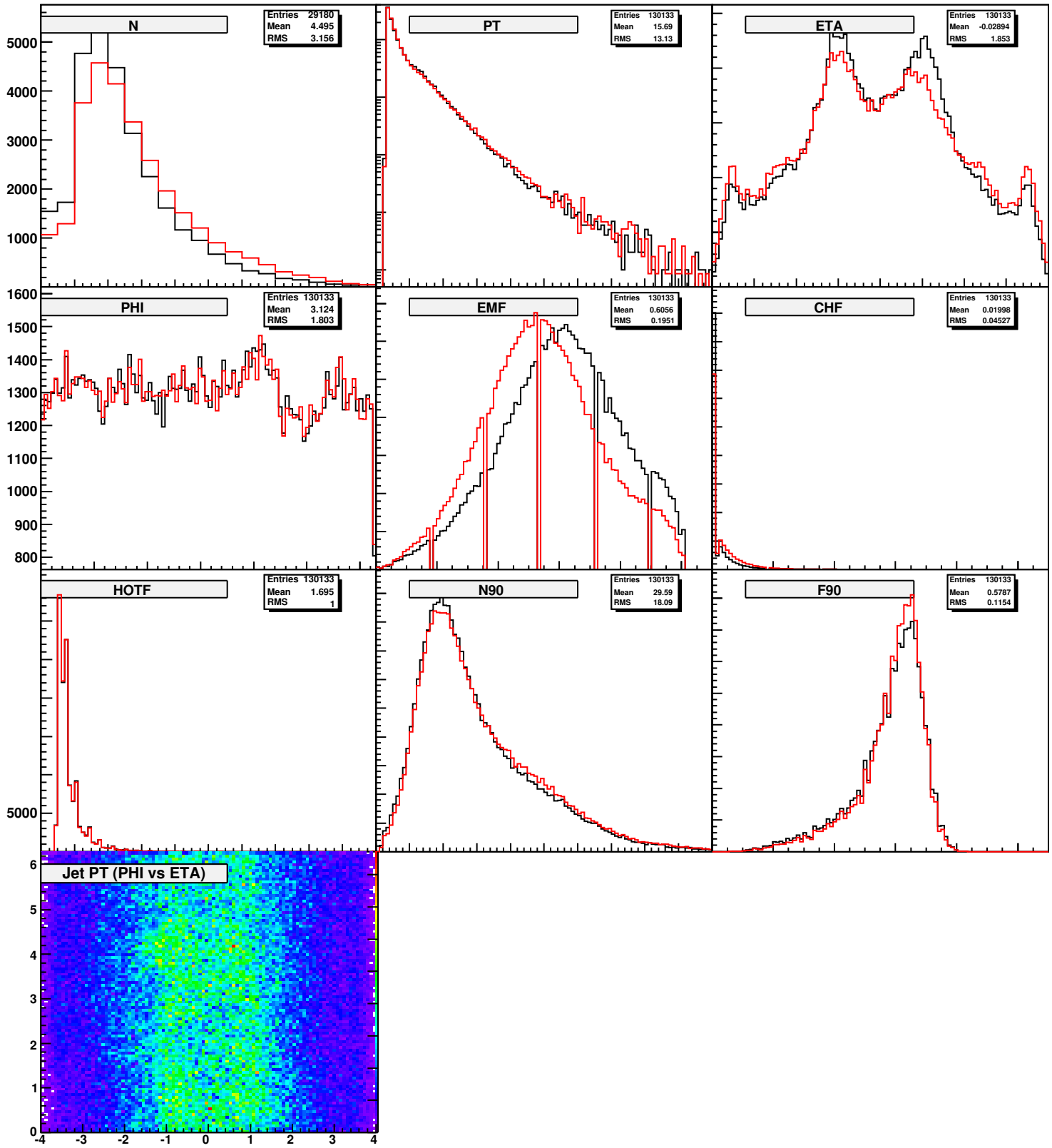


Muons (Unmatched)

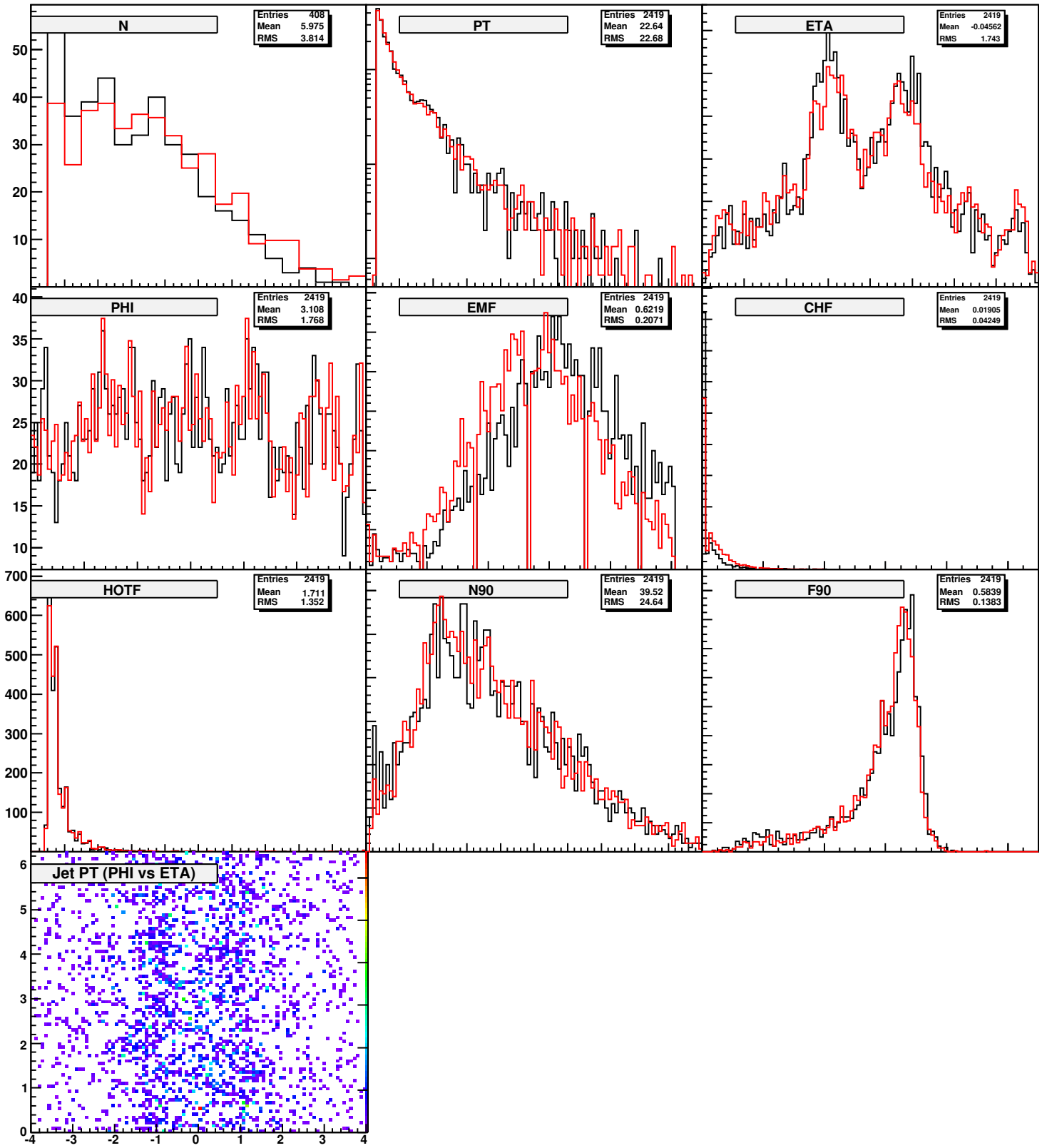

MEt
Entries 29180
Mean 8.609
RMS 6.918
MEx
Entries 29180
Mean 0.959
RMS 7.947
MEy
Entries 29180
Mean -0.5372
RMS 7.59
500
800
600
400
200
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



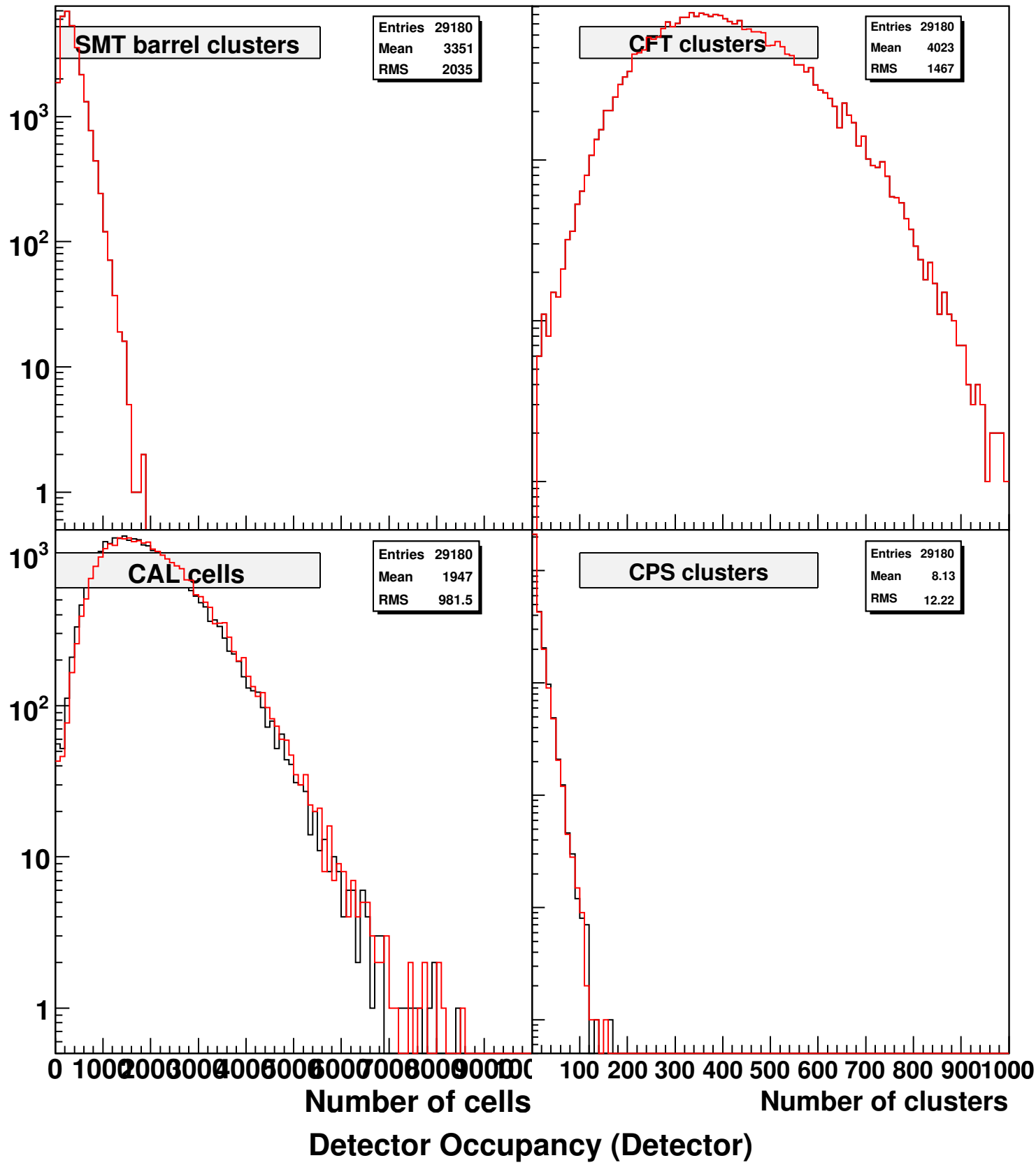
Jets (Cone R 0.7 (no cuts))

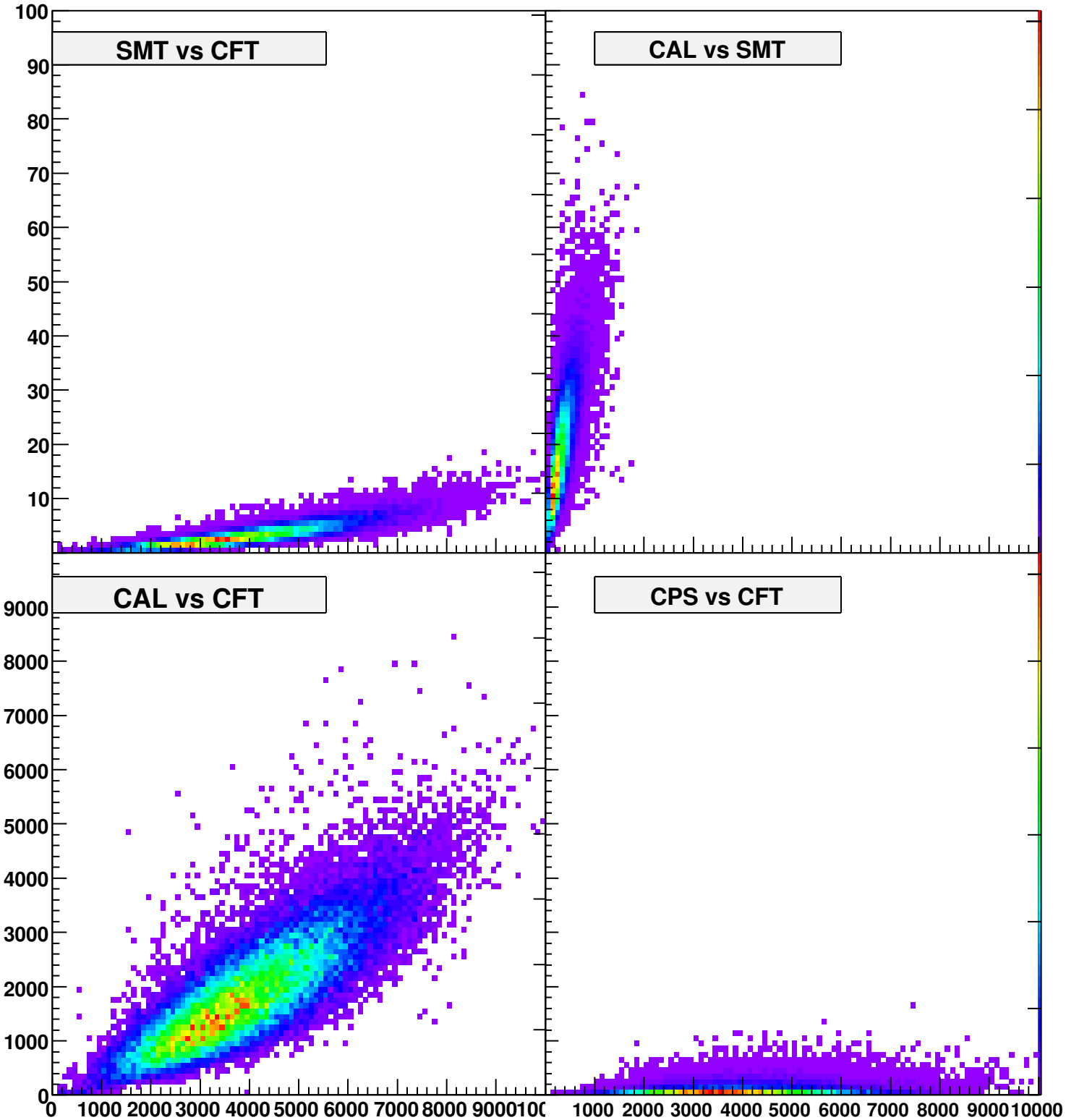


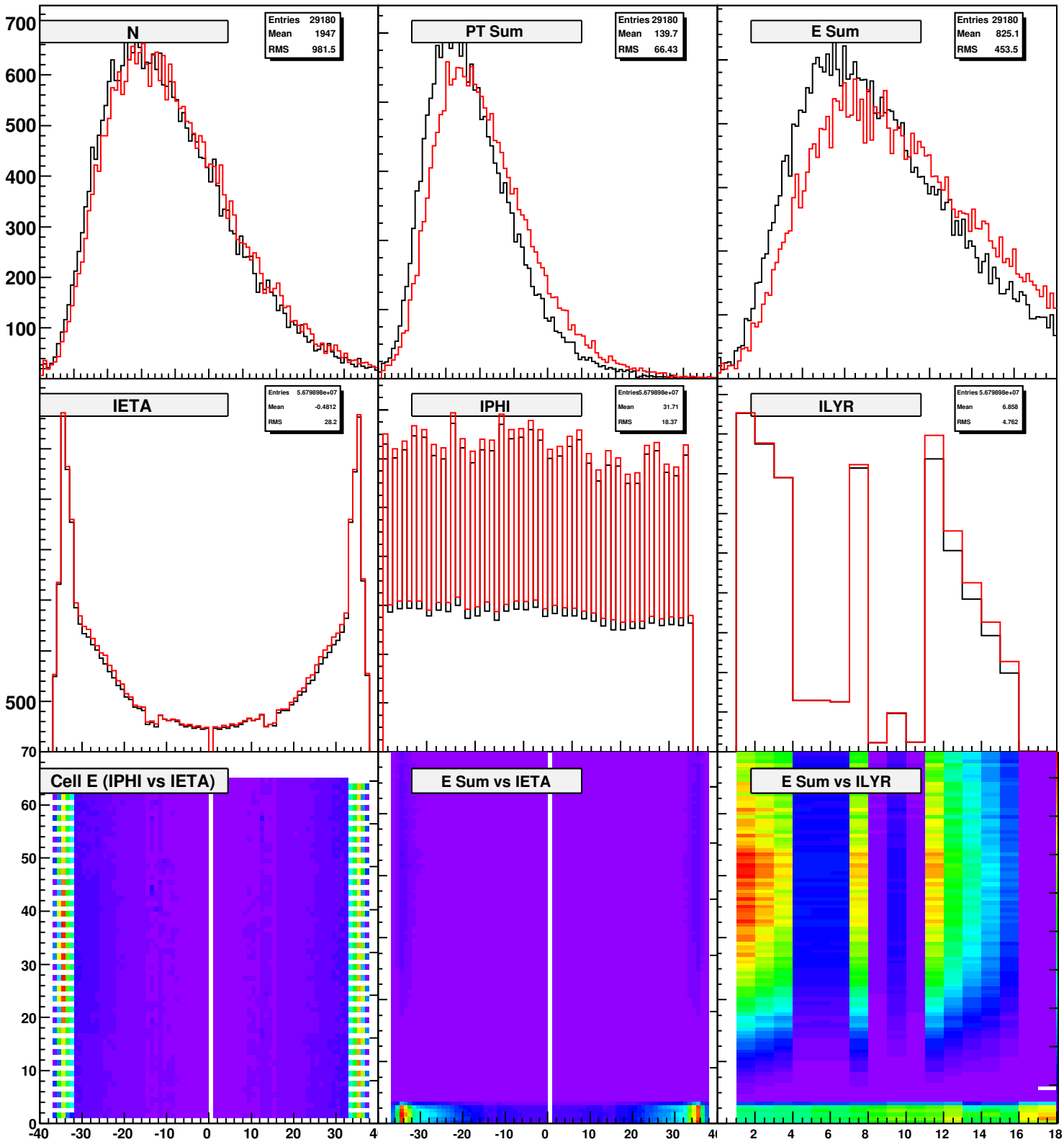
Jets (Cone R 0.7 (standard cuts))



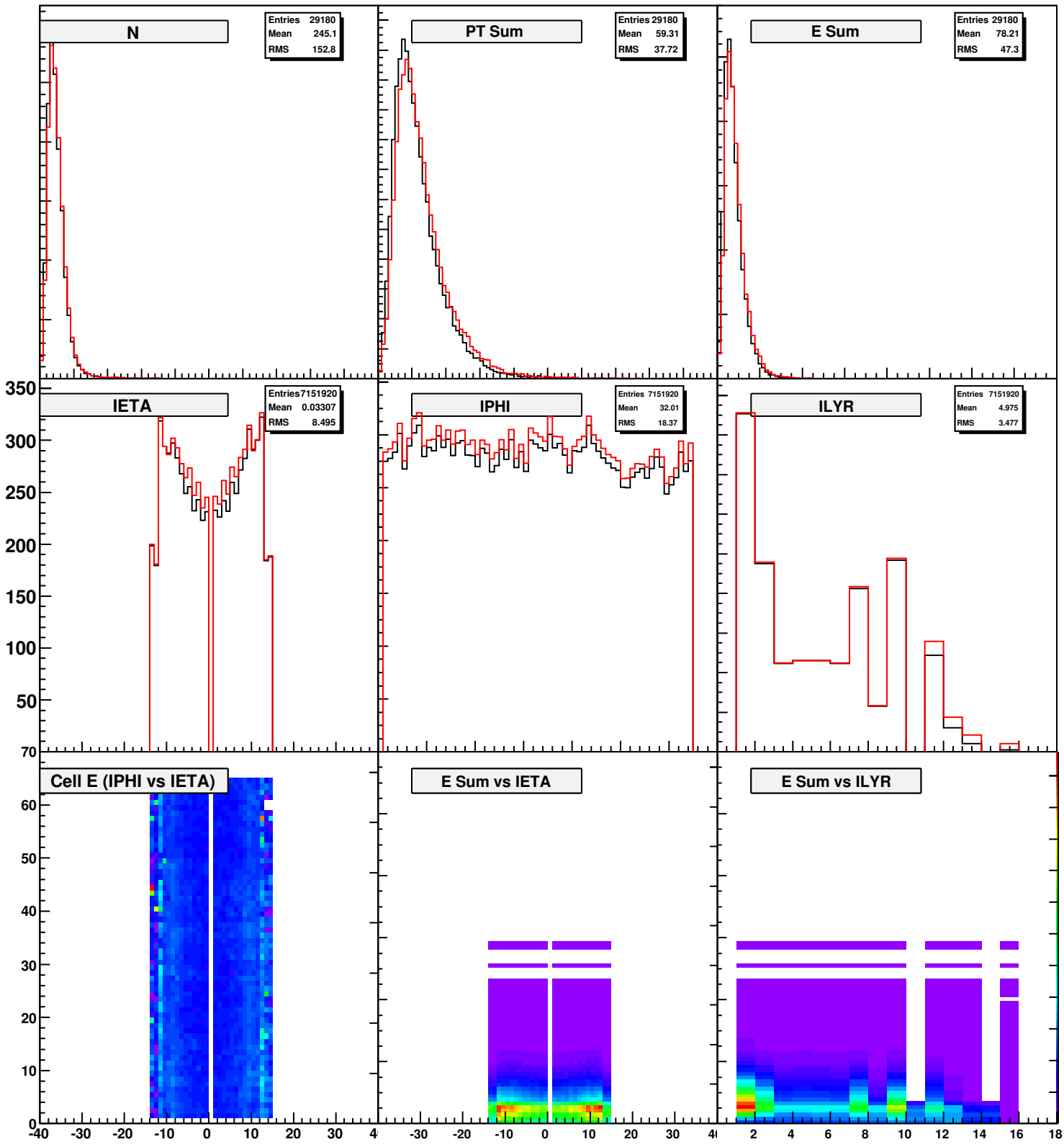
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 29180
Mean 3351
RMS 2035
CFT clusters
Entries 29180
Mean 4023
RMS 1467
CAL cells
Entries 29180
Mean 1947
RMS 981.5
CPS clusters
Entries 29180
Mean 8.13
RMS 12.22
10^3
10^2
10
1
0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Number of cells
100 200 300 400 500 600 700 800 900 1000
Number of clusters
Detector Occupancy (Detector)

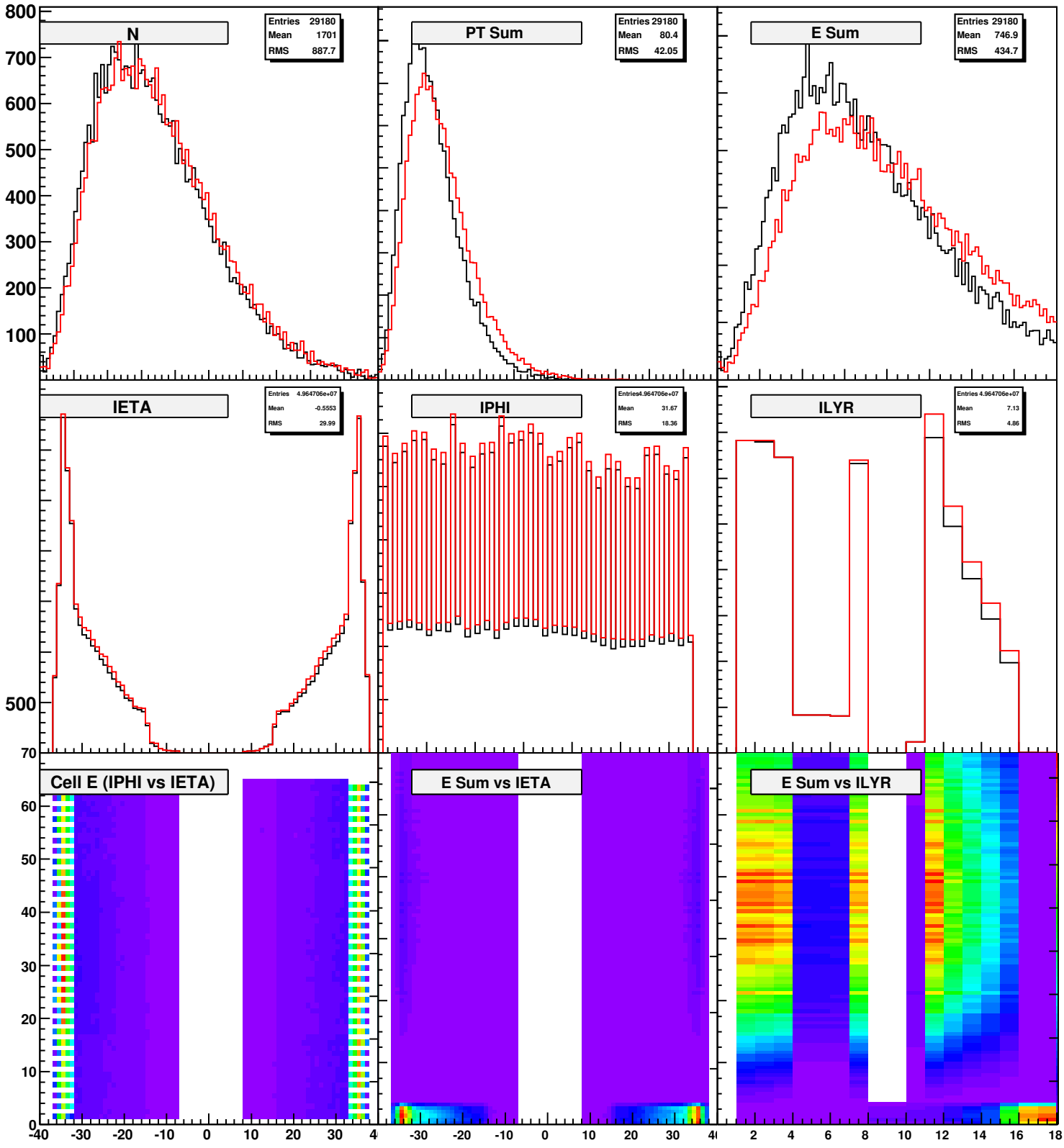

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



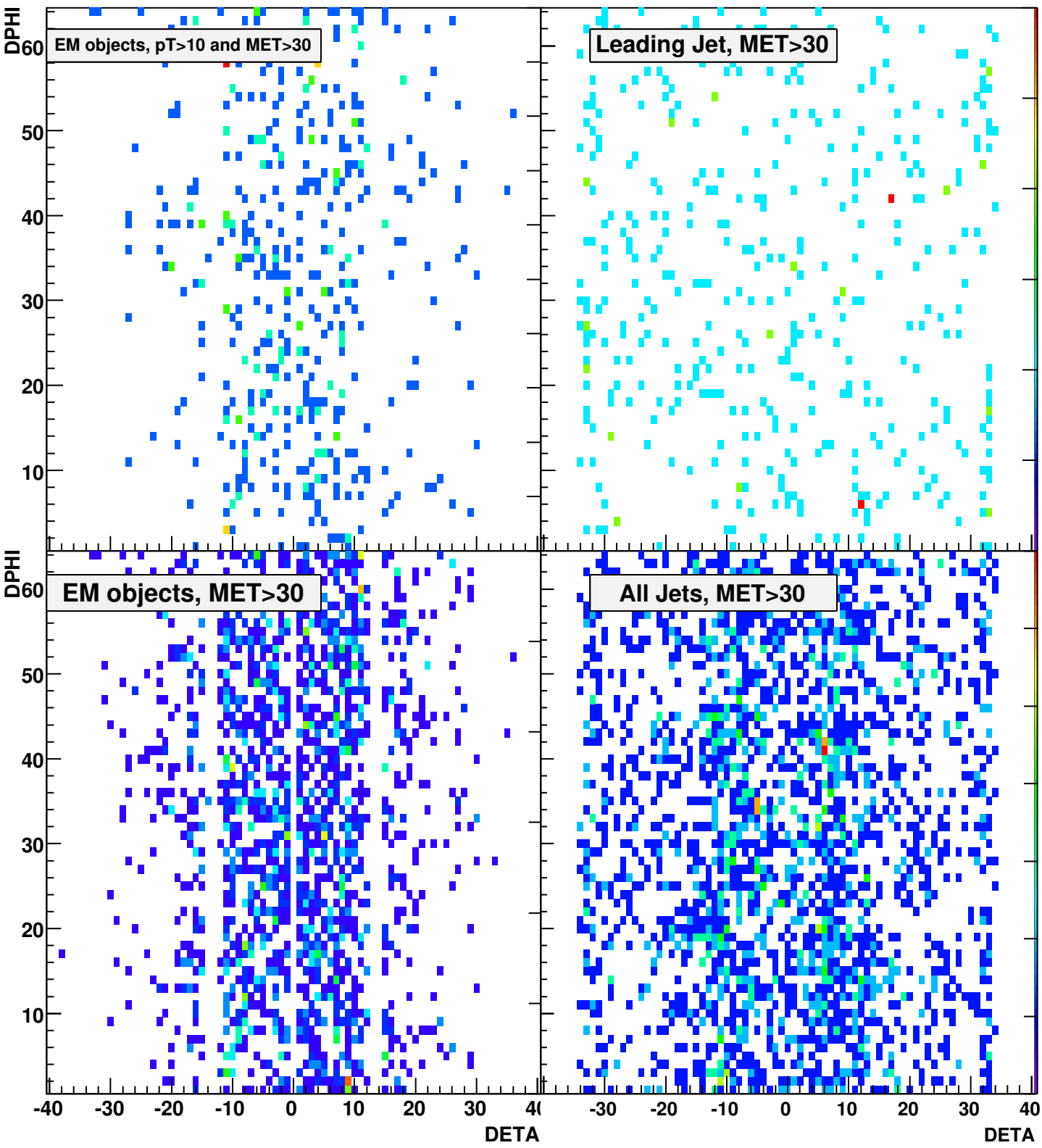
Calorimeter (All cells)



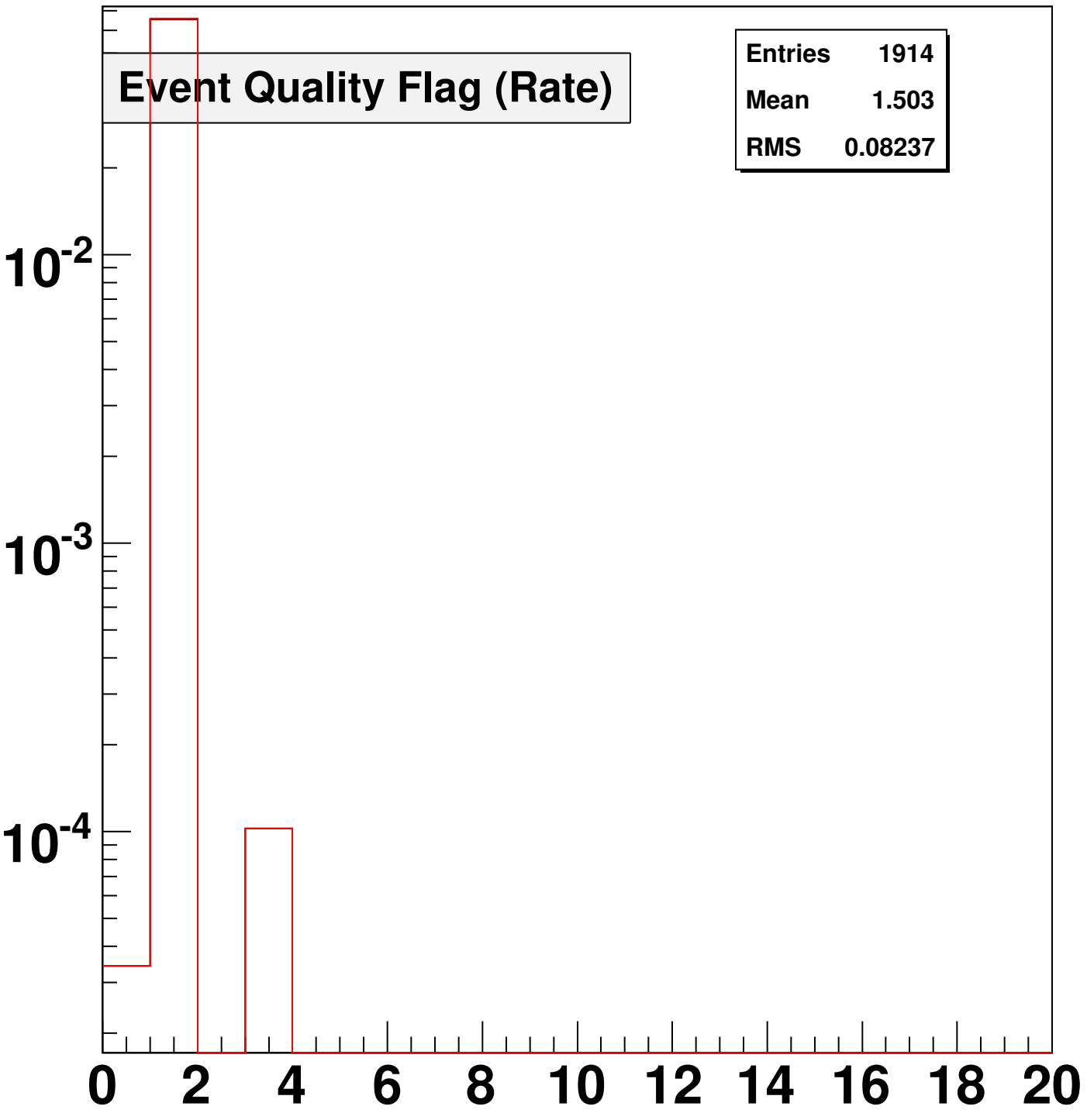
Calorimeter (All CC cells)

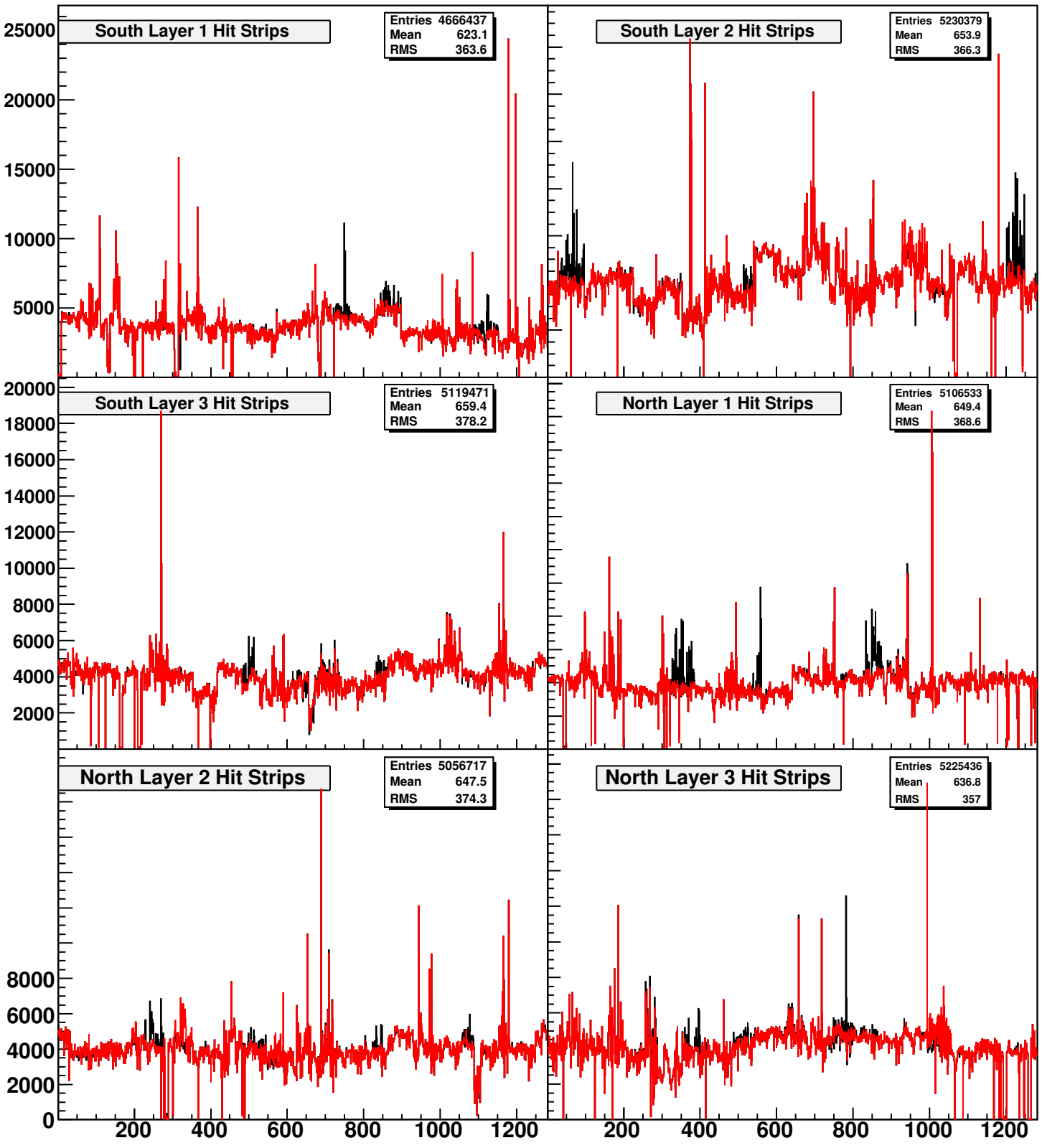


Calorimeter (All EC cells)

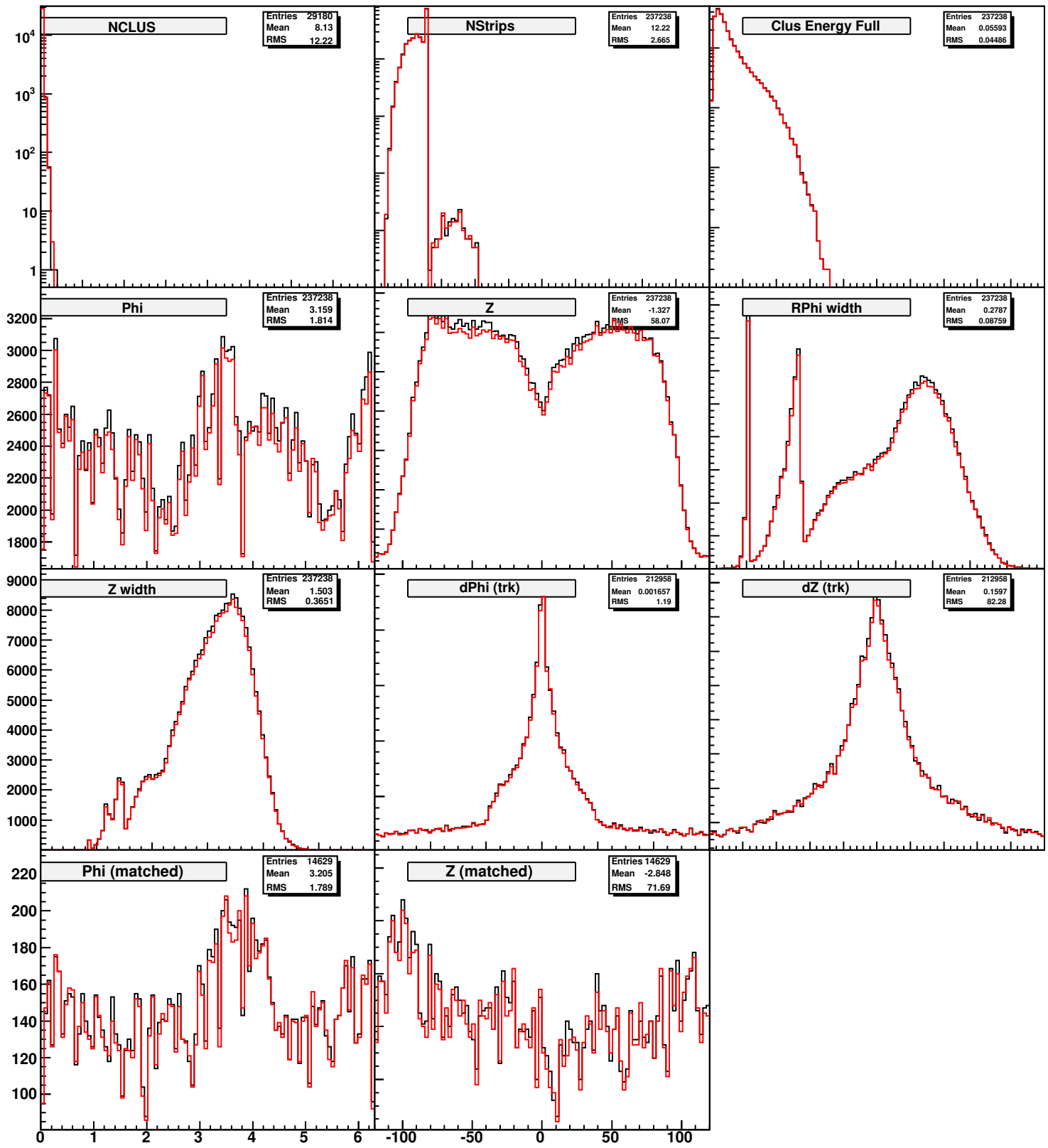


Cal Objects with MET>30 (All cells)

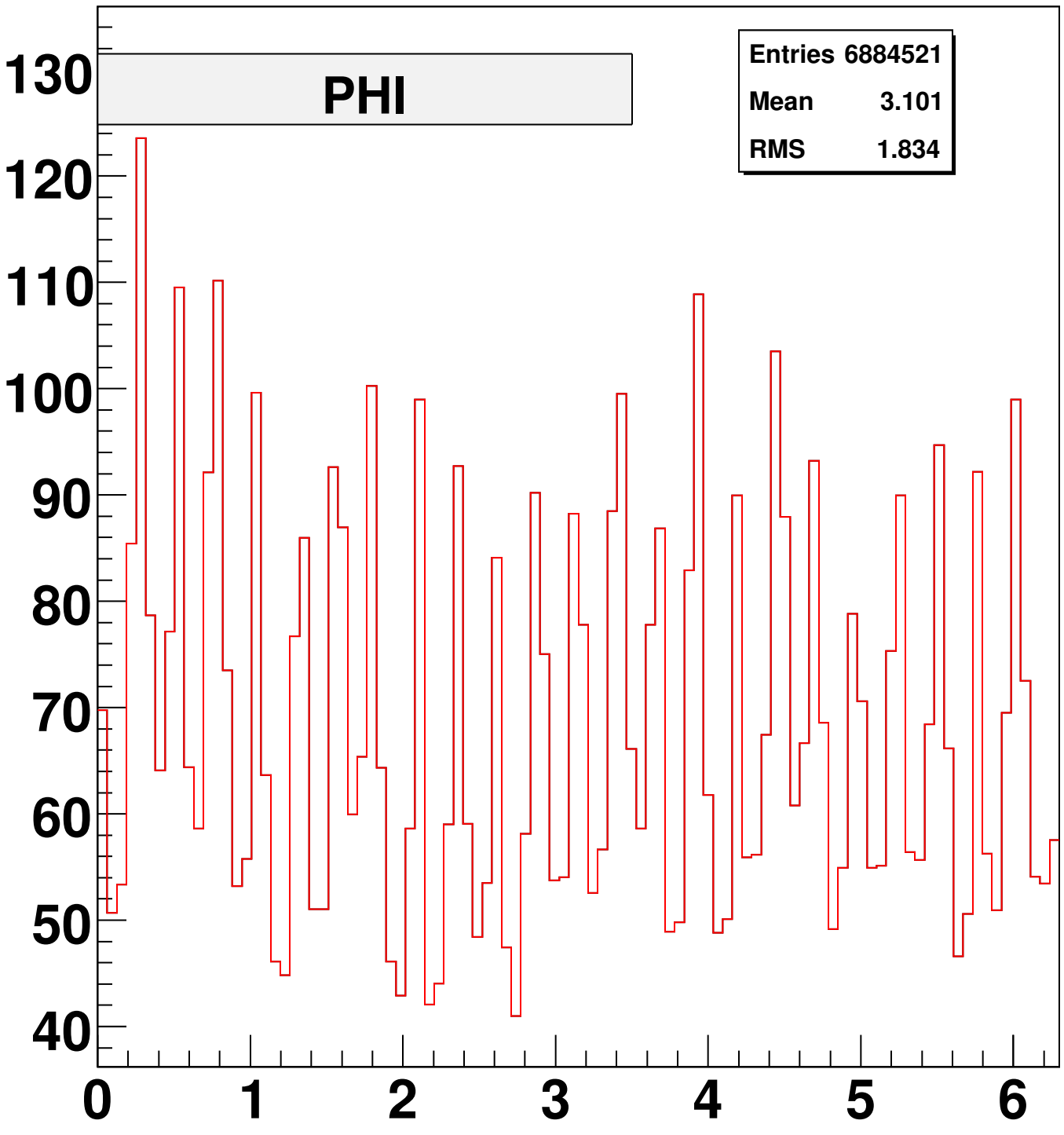

Event Quality Flag (Rate)
Entries 1914
Mean 1.503
RMS 0.08237
10-2
10-3
10-4
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

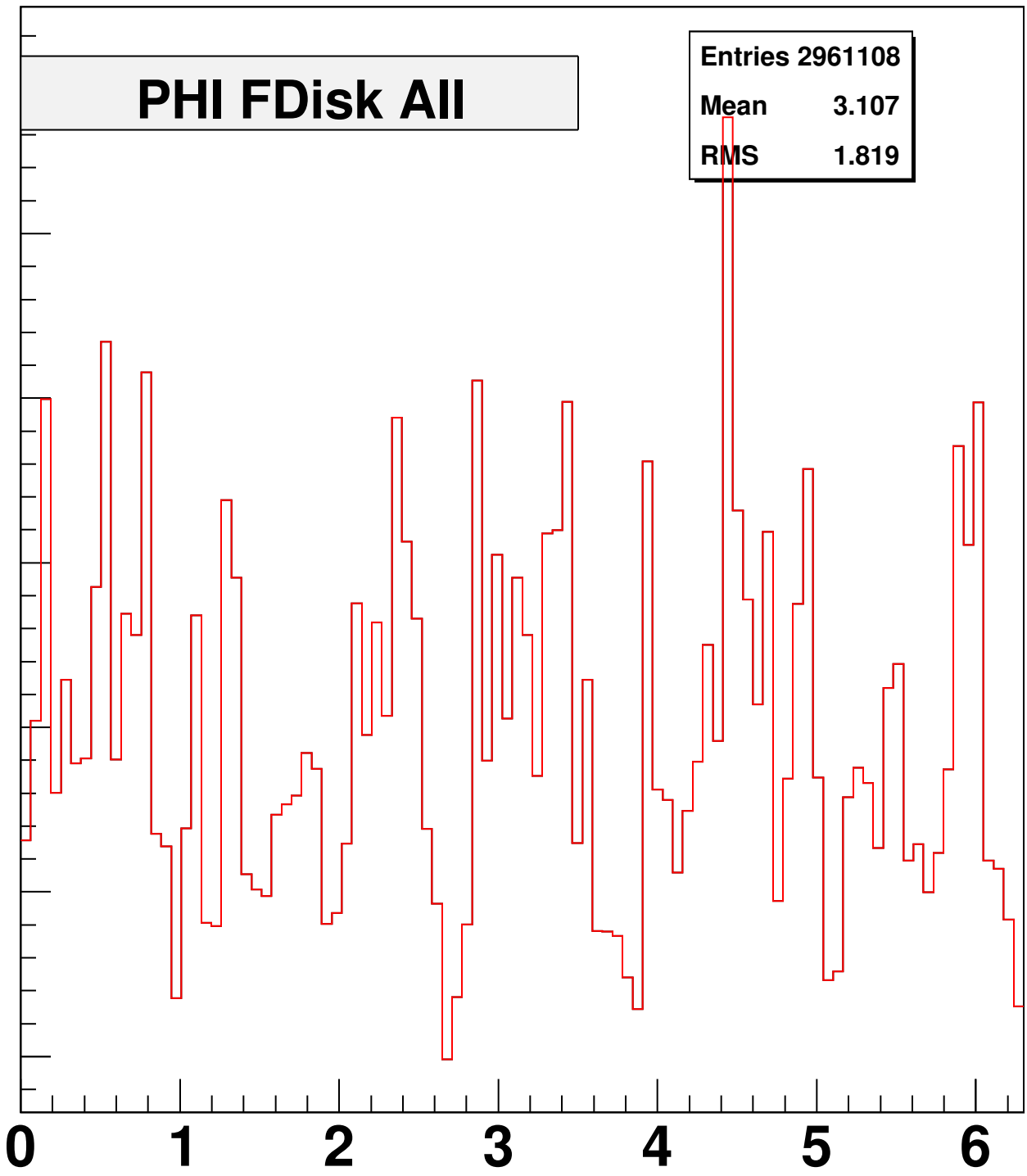


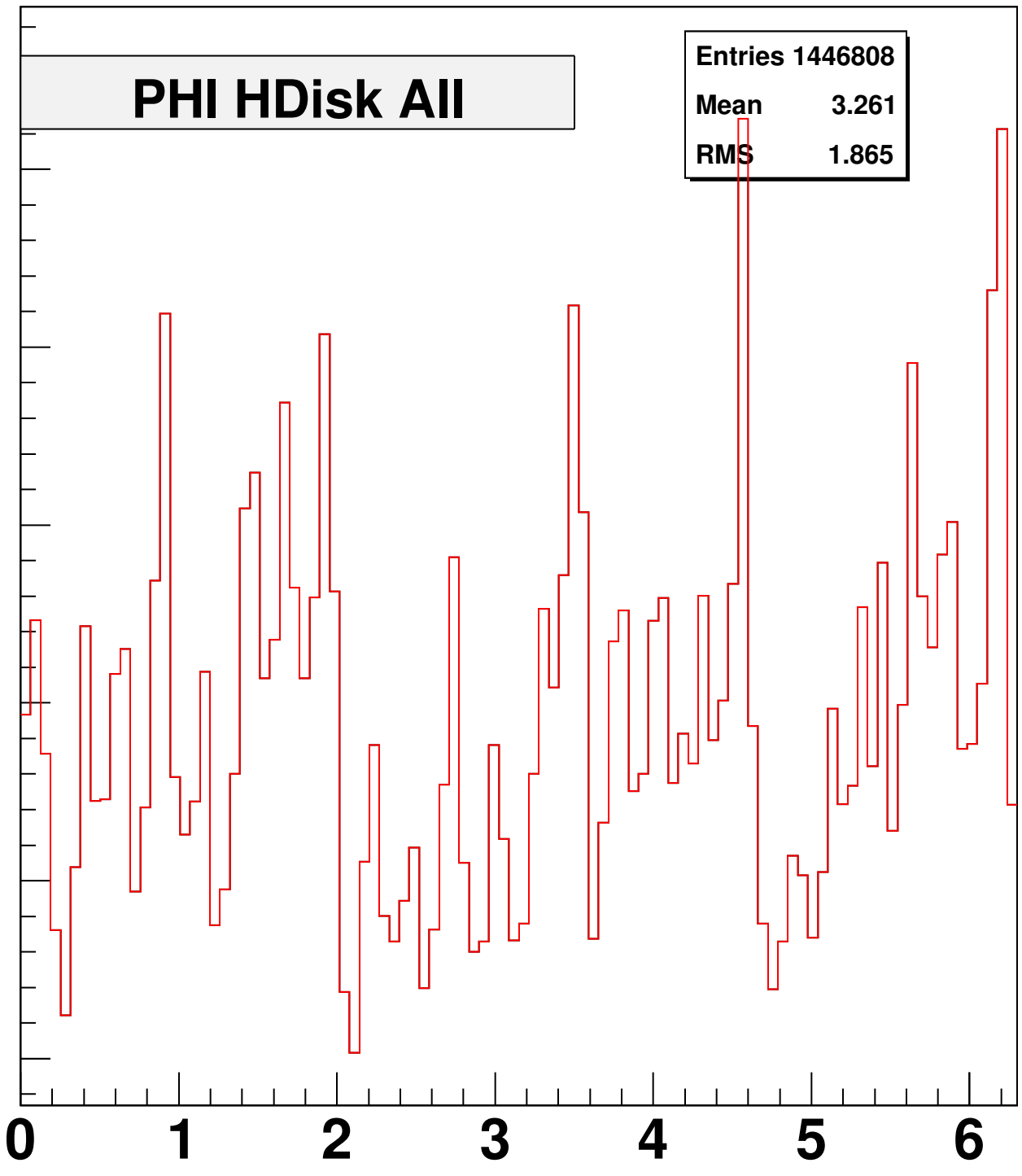
CPS Hit Strips (All Clusters)

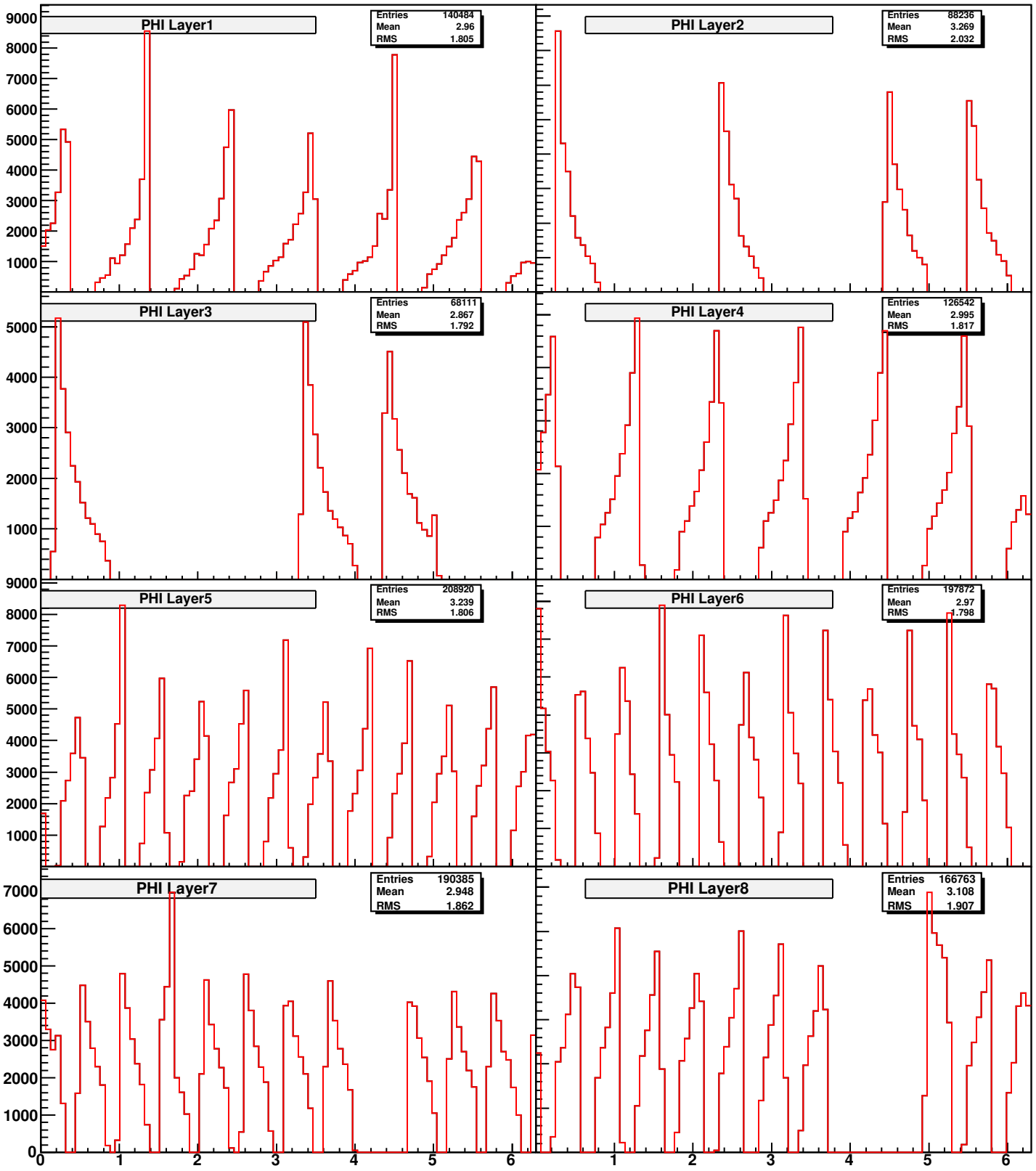


CPS Clusters (All Clusters)

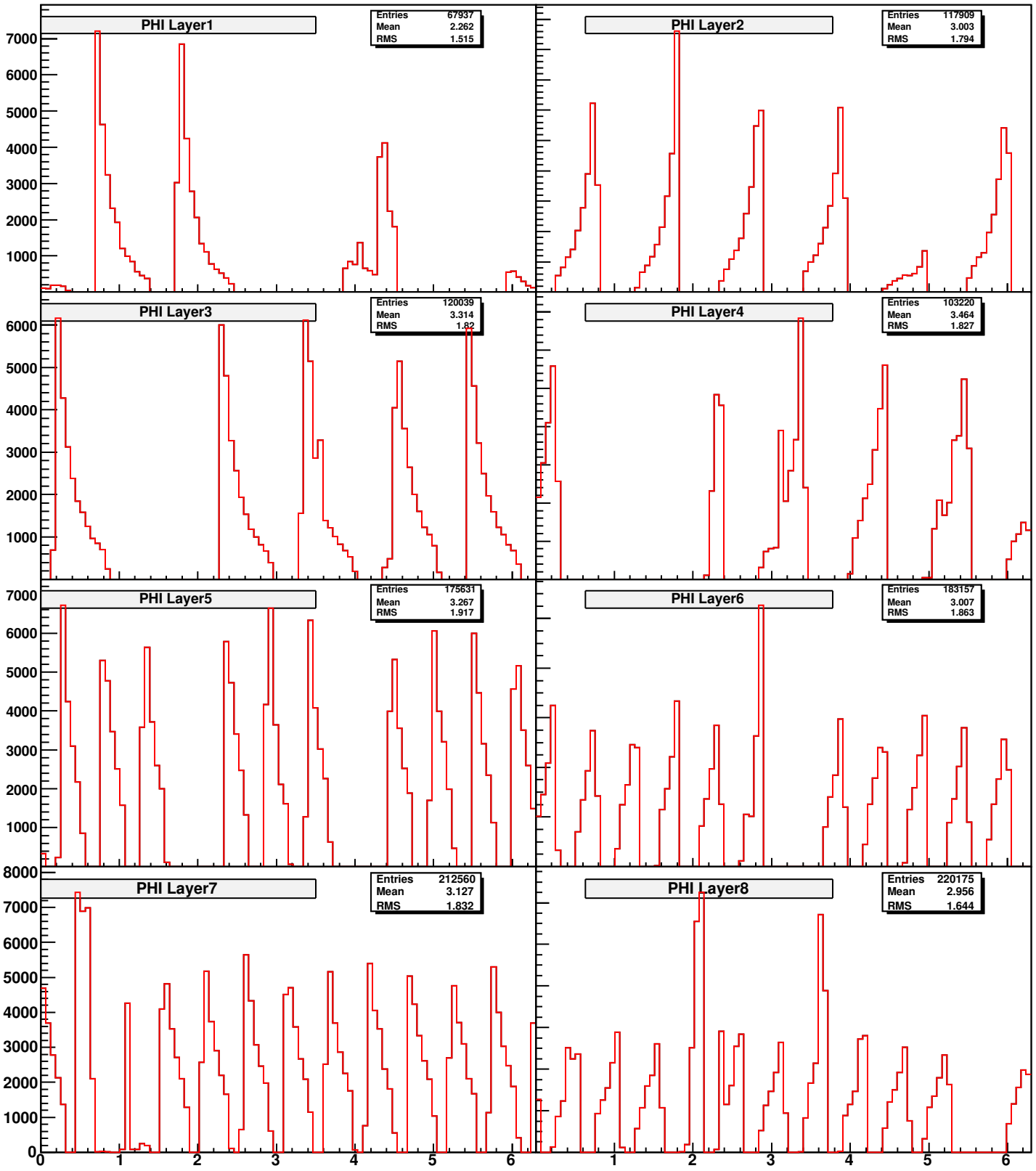

PHI
Entries 6884521
Mean 3.101
RMS 1.834
130
120
110
100
90
80
70
60
50
40
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 2961108
Mean 3.107
RMS 1.819
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

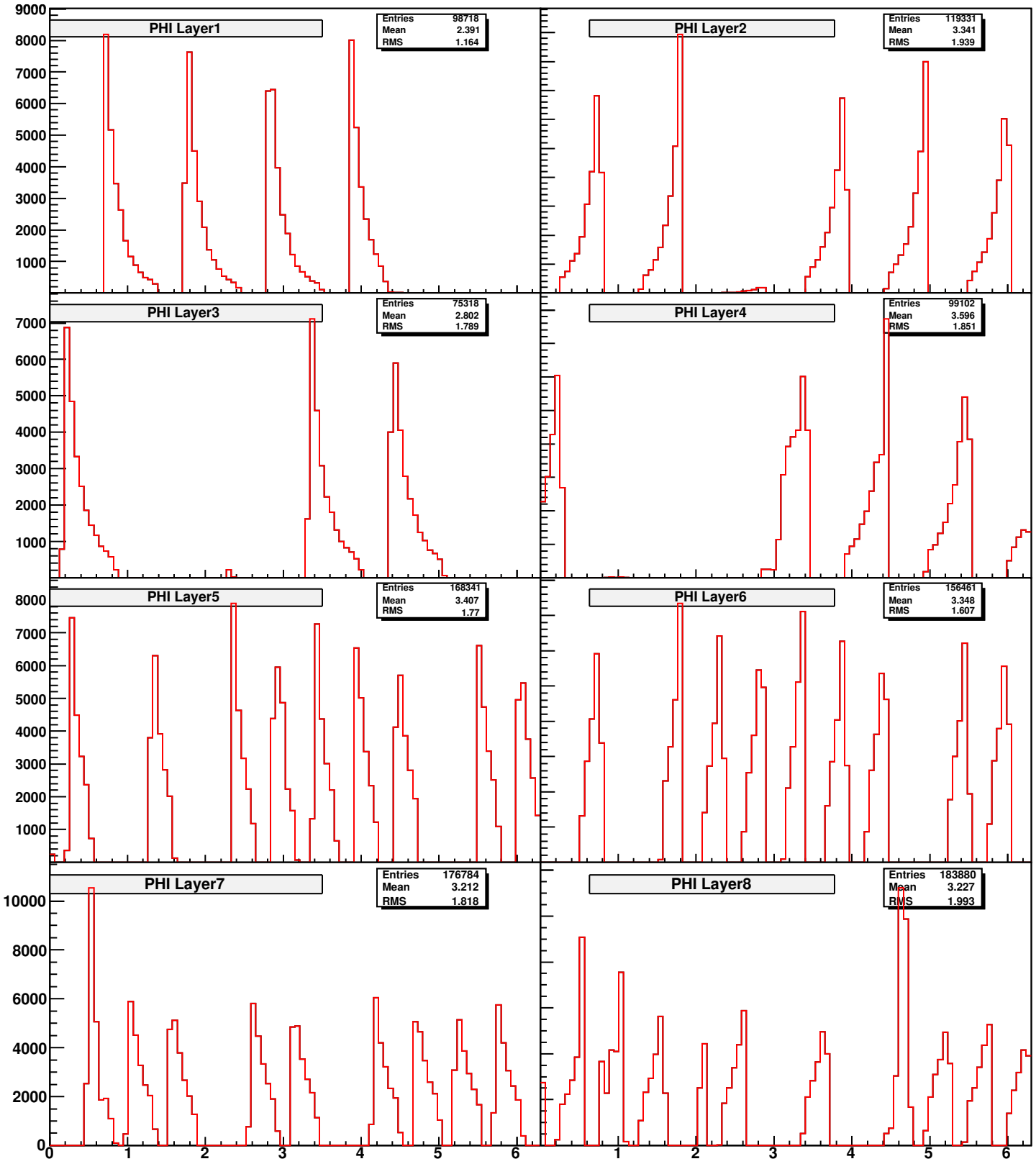

PHI HDisk All
Entries 1446808
Mean 3.261
RMS 1.865
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



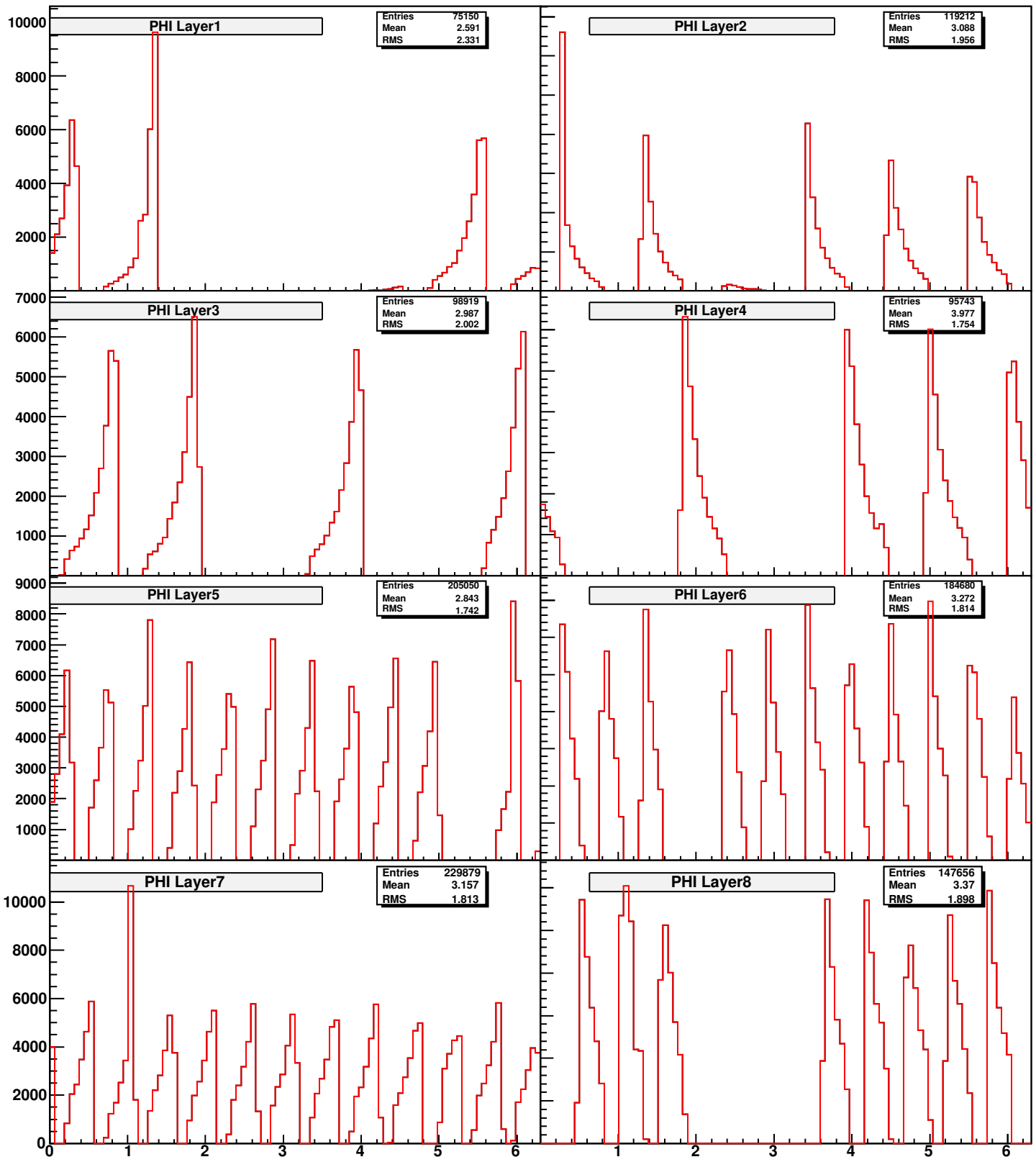
SmtClusters (ClustrBar1)



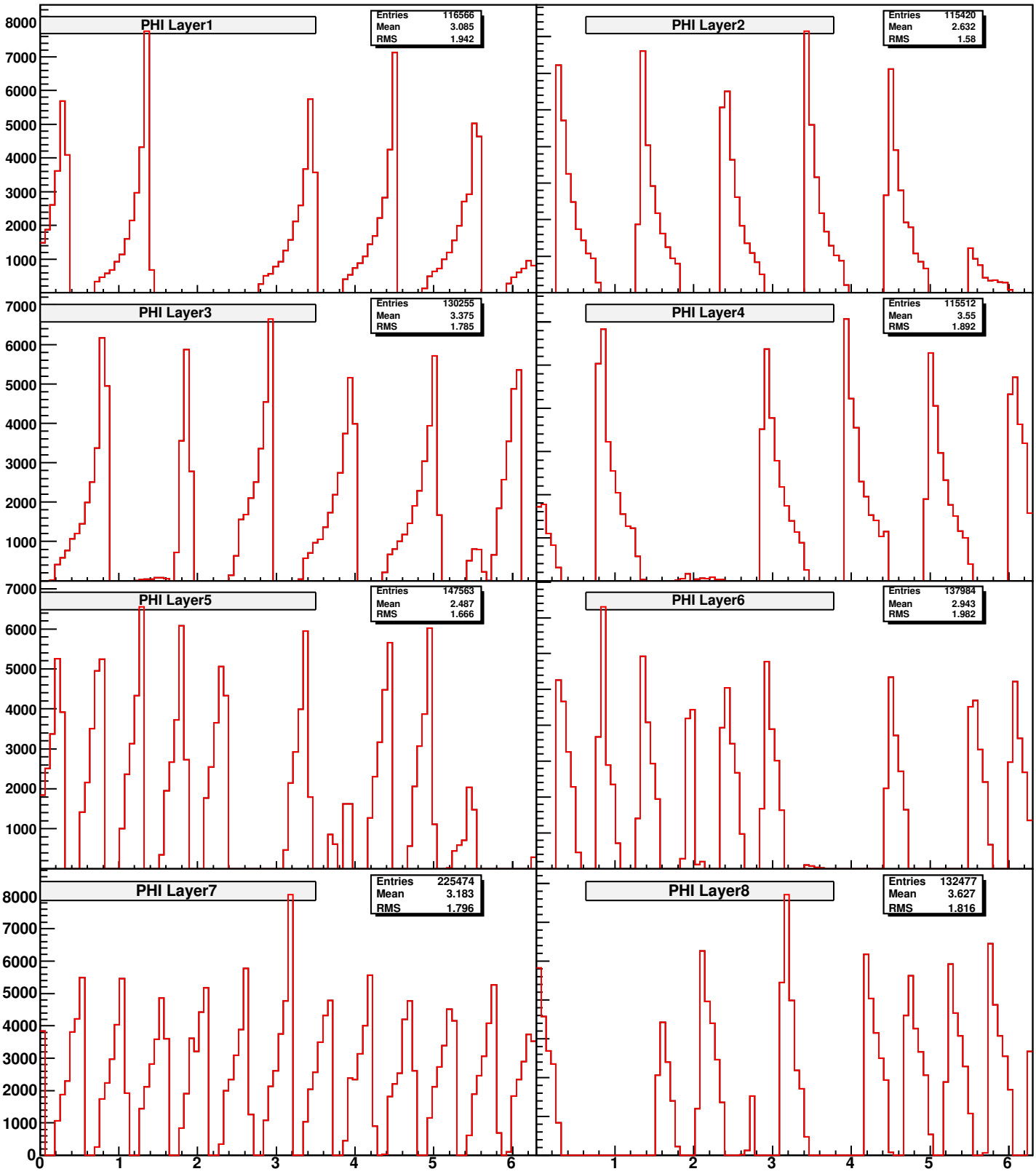
SmtClusters (ClustrBar2)



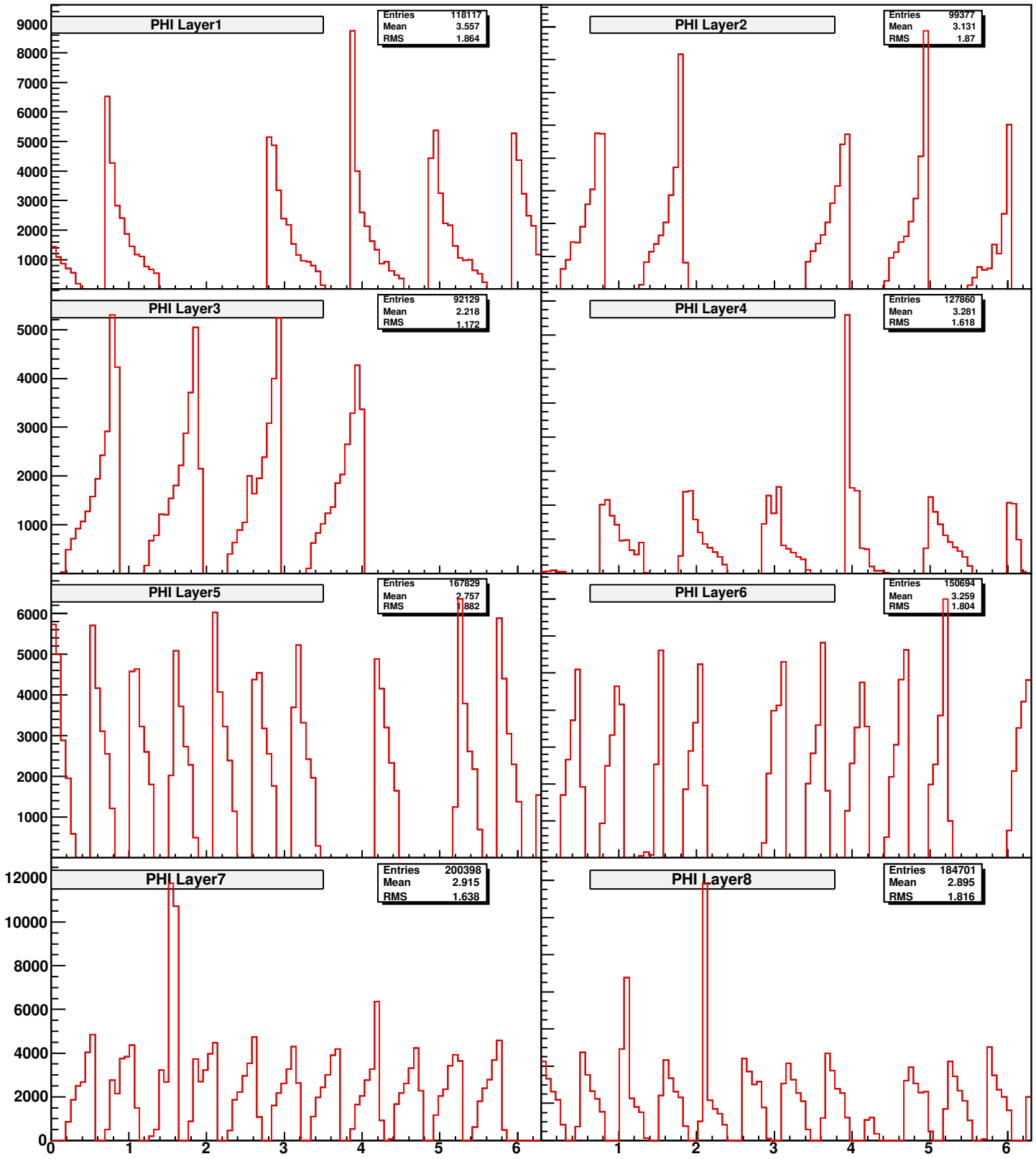
SmtClusters (ClustrBar3)



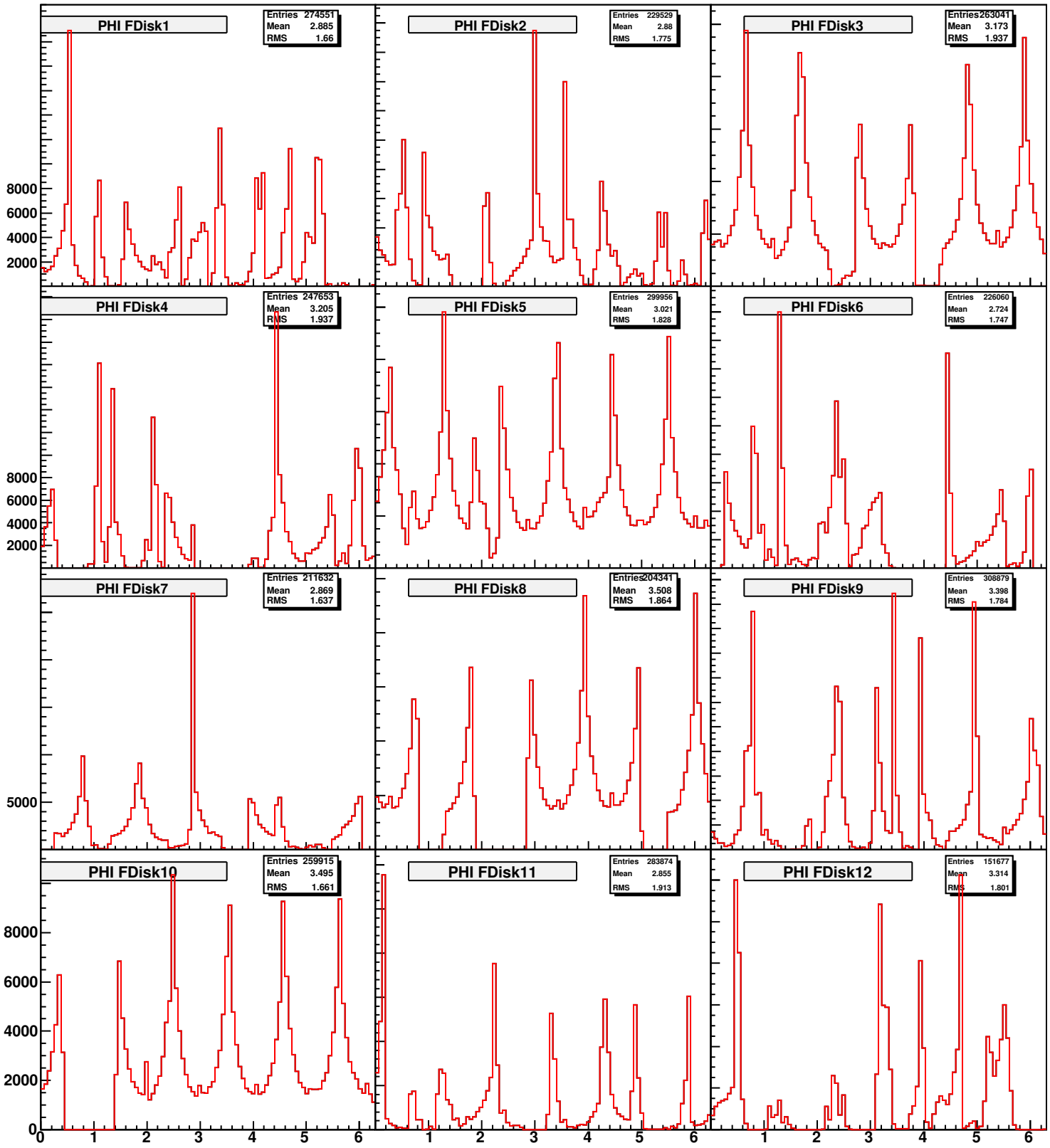
SmtClusters (ClustrBar4)



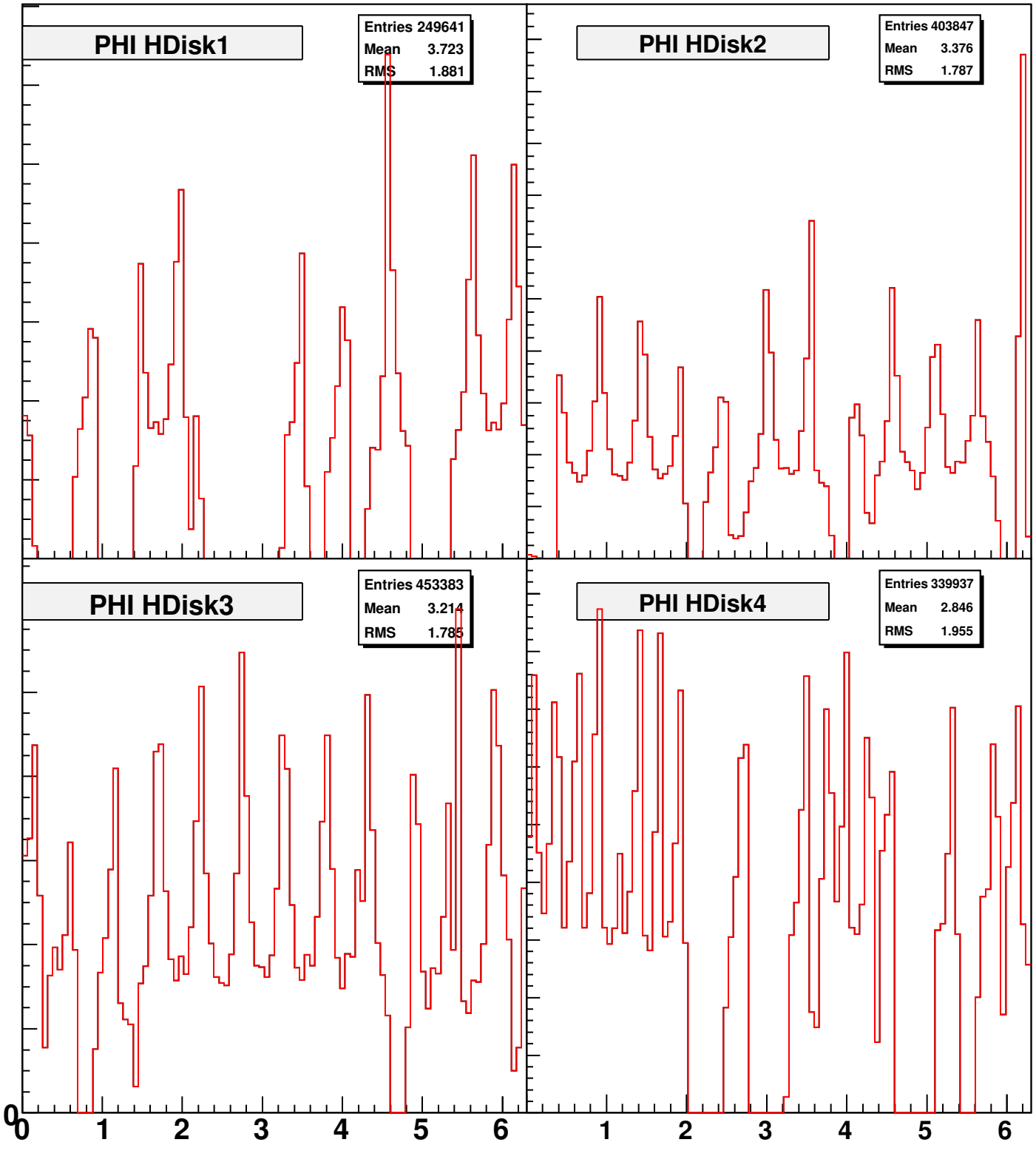
SmtClusters (ClustrBar5)

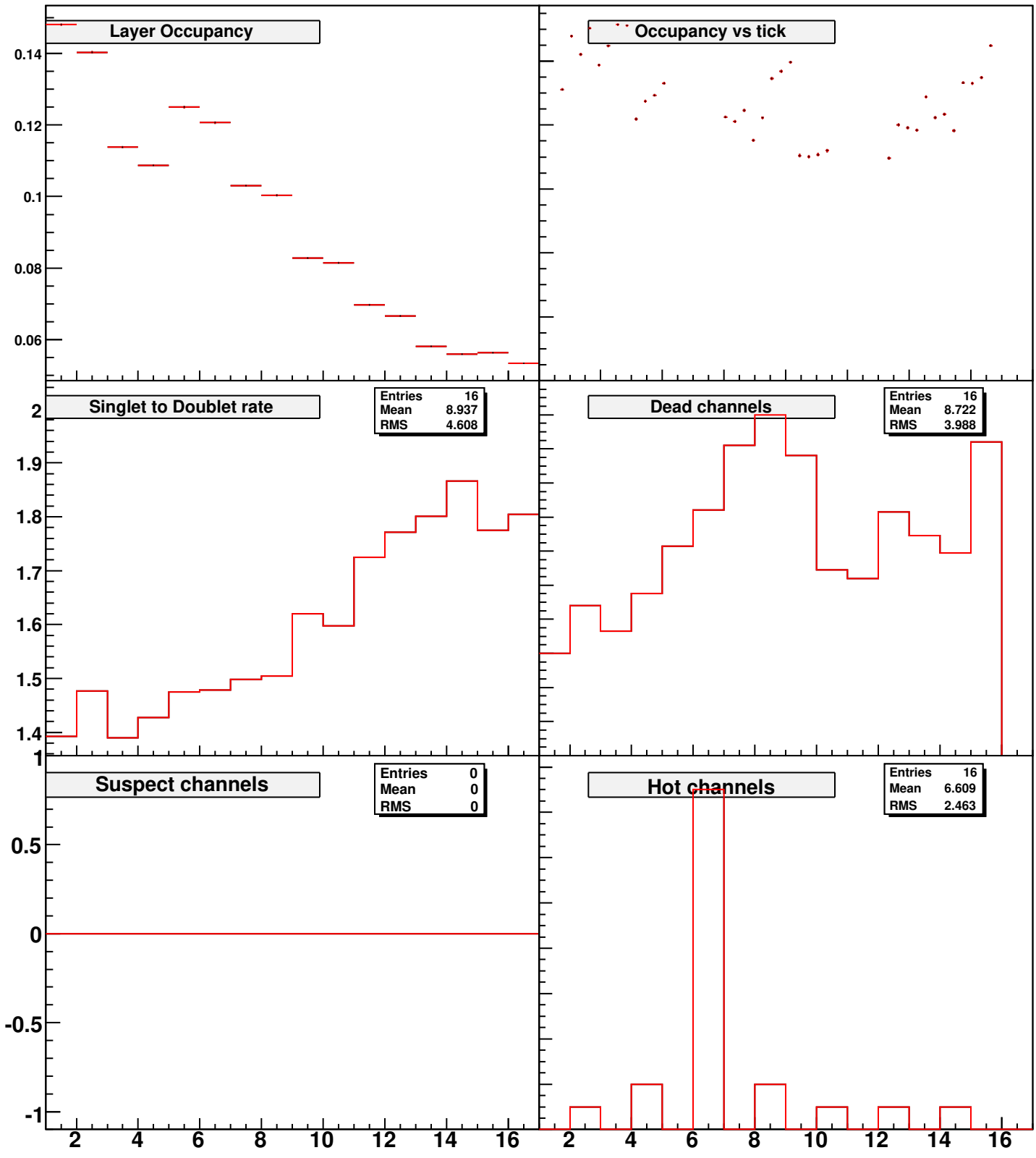


SmtClusters (ClustrBar6)

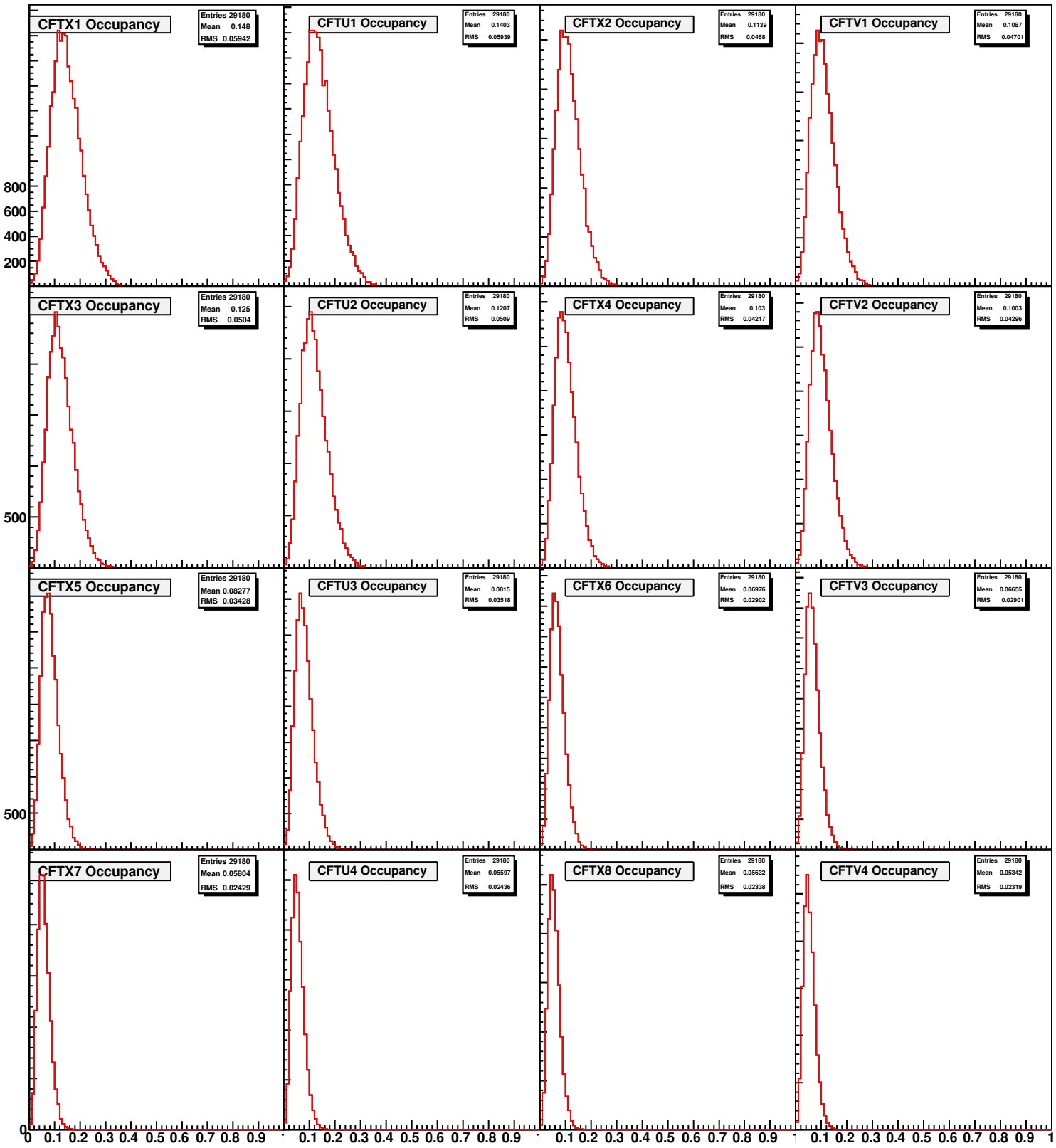


SmtClusters (FDiskClusters)

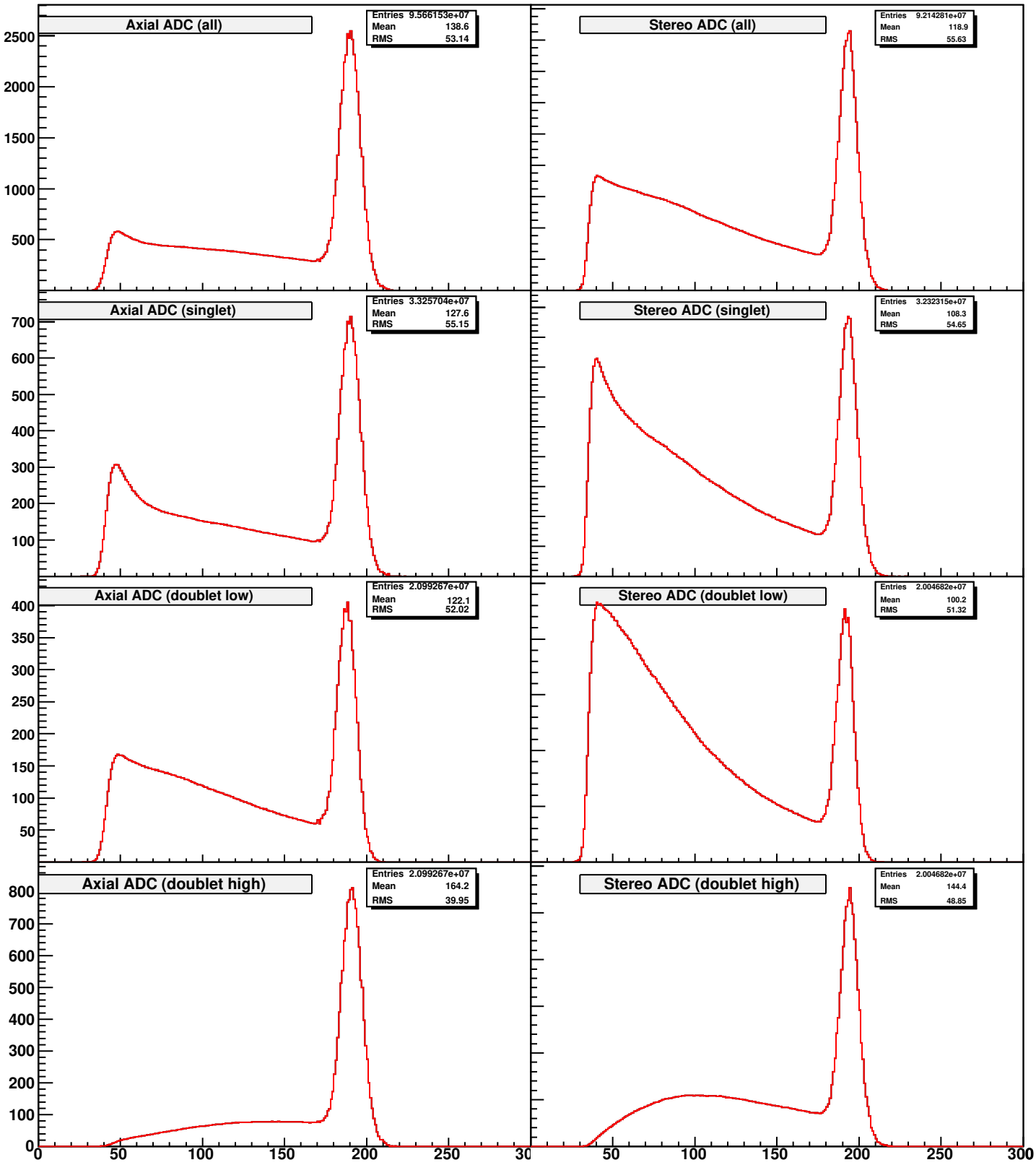

PHI HDisk1
Entries 249641
Mean 3.723
RMS 1.881
PHI HDisk2
Entries 403847
Mean 3.376
RMS 1.787
PHI HDisk3
Entries 453383
Mean 3.214
RMS 1.785
PHI HDisk4
Entries 339937
Mean 2.846
RMS 1.955
0
0
1
2
3
4
5
6
1
2
3
4
5
6
SmtClusters (HDiskClusters)



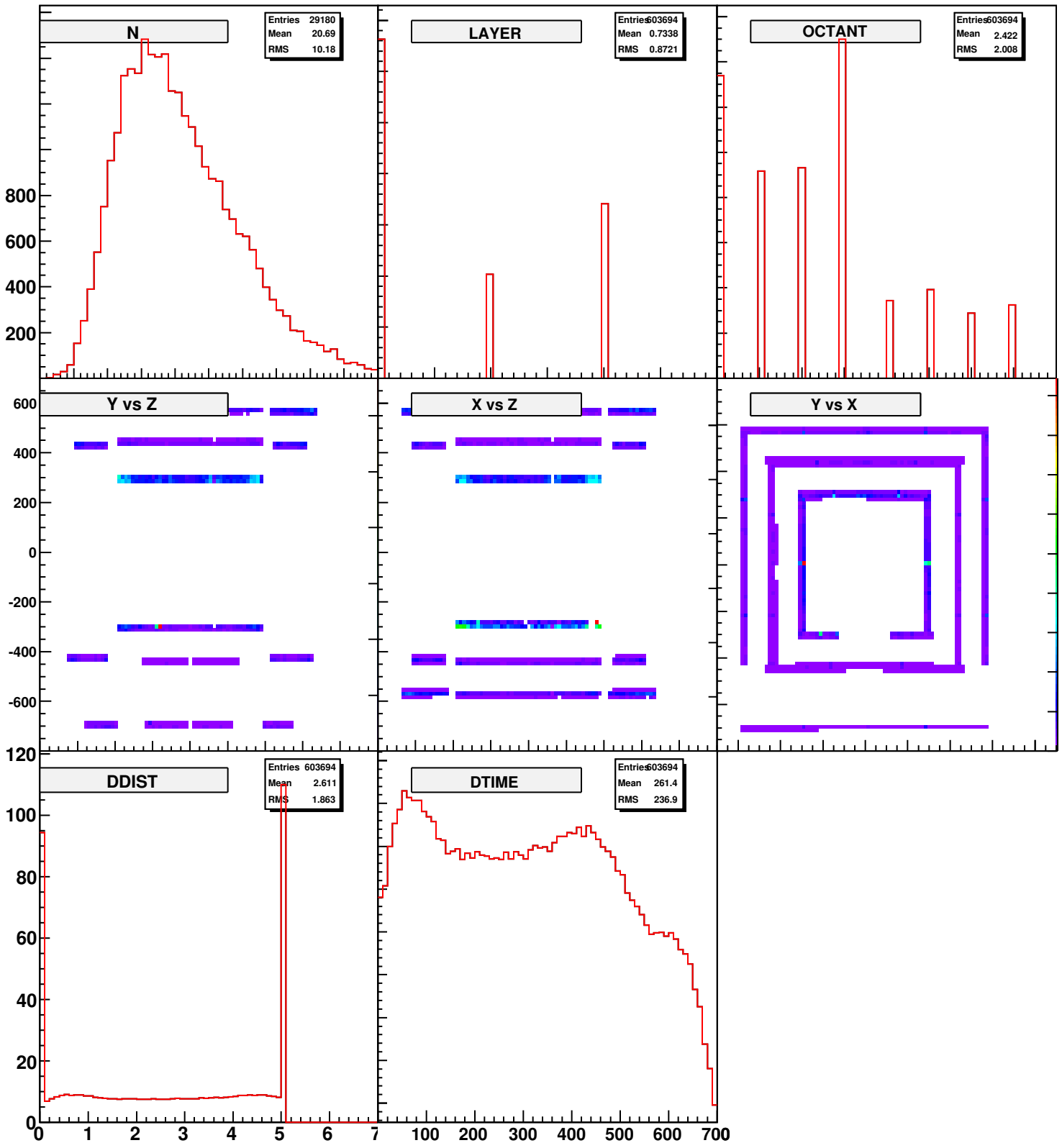
CFT Summary (All Clusters)



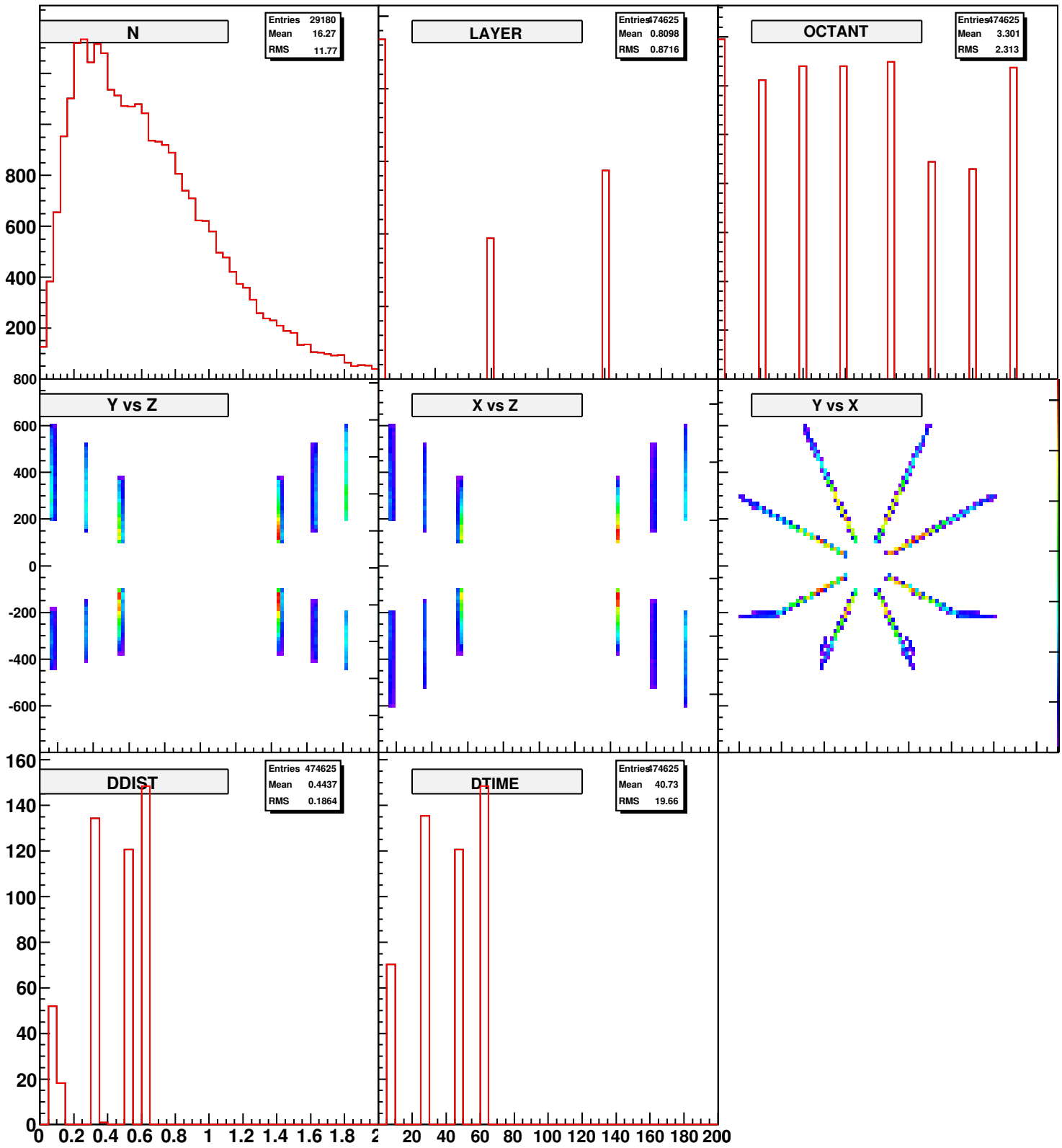
CFT Occupancy (All Clusters)



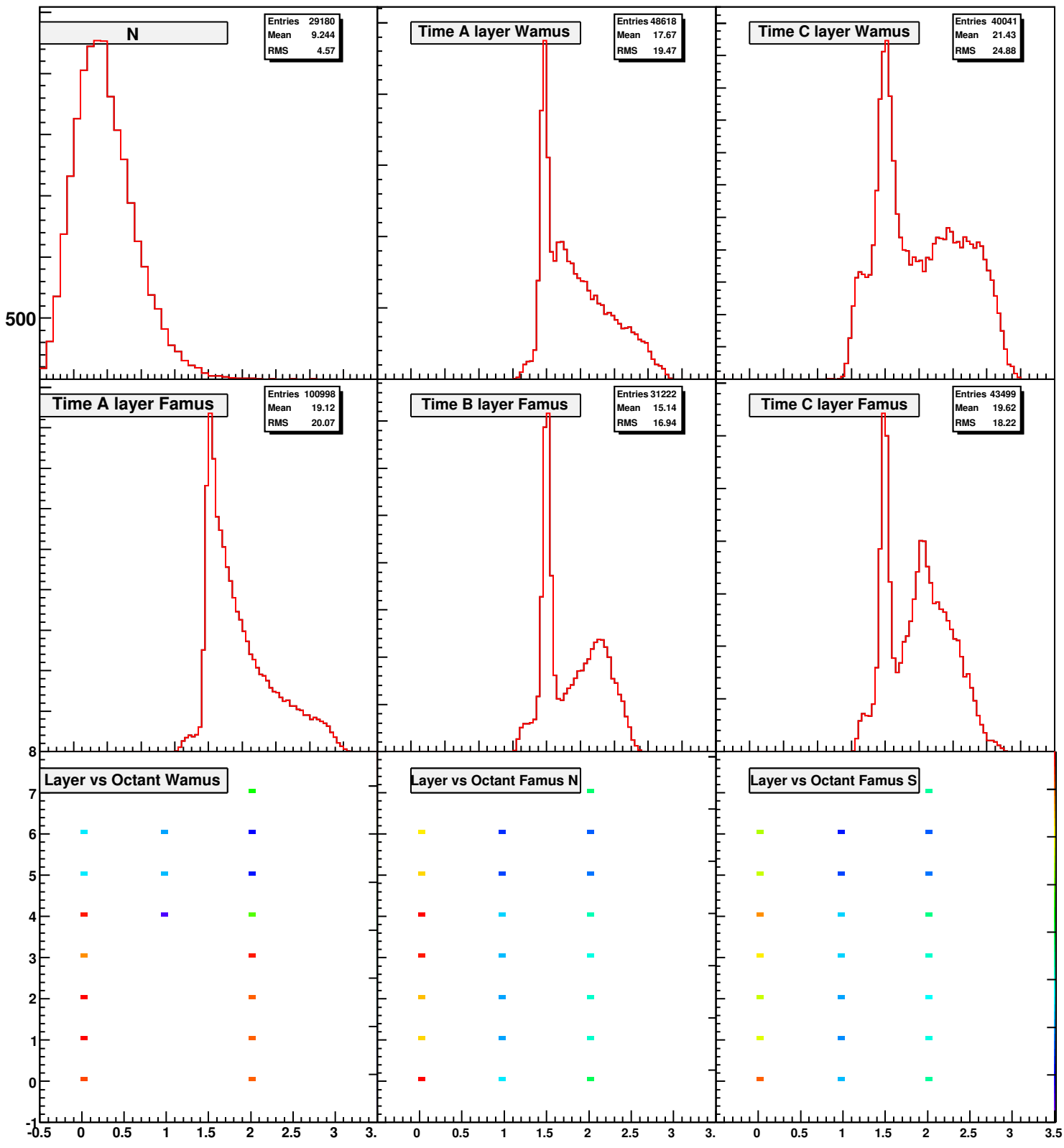
CFT ADC Summary (All Clusters)


N
Entries 29180
Mean 20.69
RMS 10.18
LAYER
Entries 603694
Mean 0.7338
RMS 0.8721
OCTANT
Entries 603694
Mean 2.422
RMS 2.008
Y vs Z
X vs Z
Y vs X
DDIST
Entries 603694
Mean 2.611
RMS 1.863
DTIME
Entries 603694
Mean 261.4
RMS 236.9

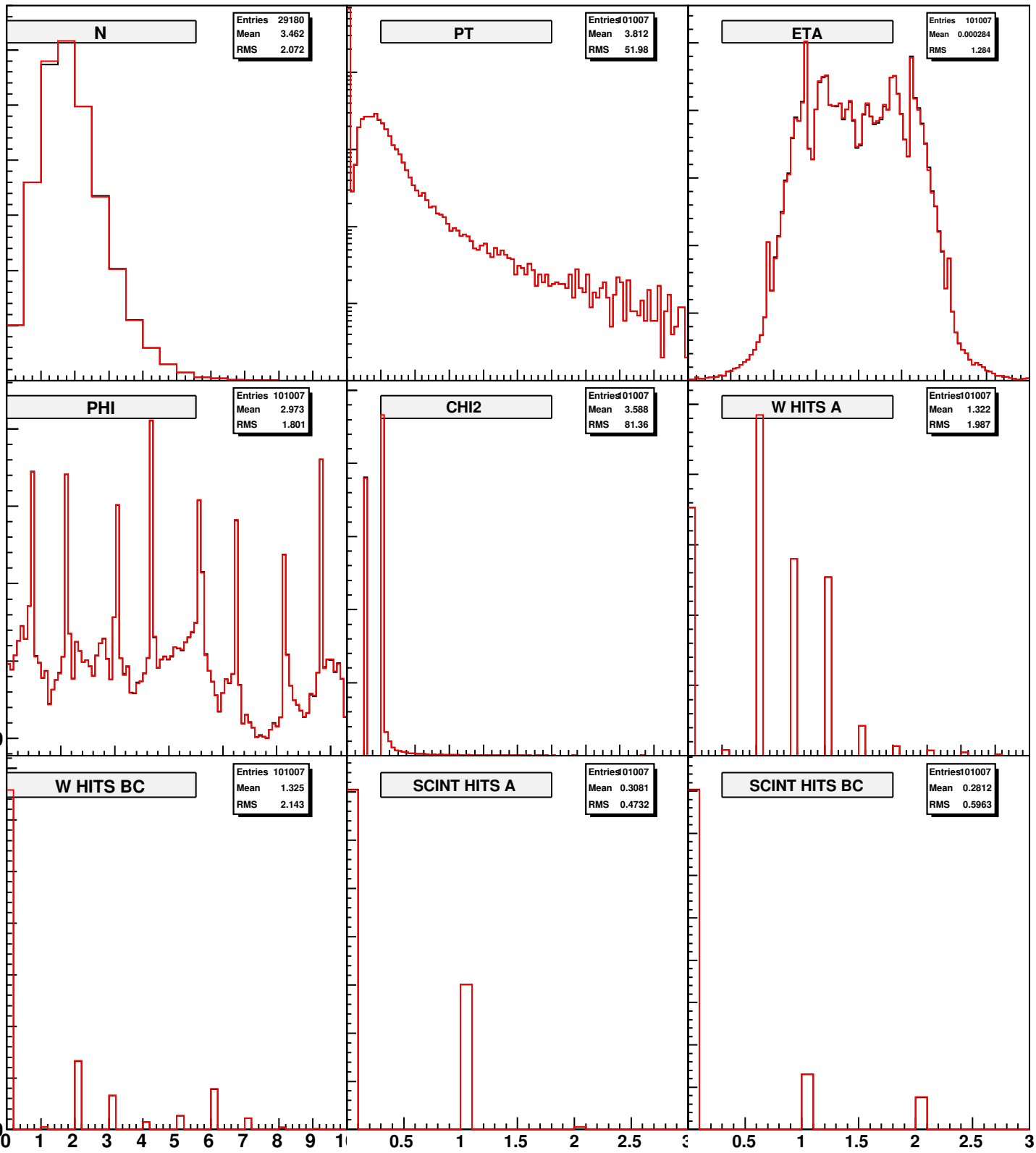
MuonPDT (All)


N
Entries 29180
Mean 16.27
RMS 11.77
LAYER
Entries 474625
Mean 0.8098
RMS 0.8716
OCTANT
Entries 474625
Mean 3.301
RMS 2.313
Y vs Z
X vs Z
Y vs X
DDIST
Entries 474625
Mean 0.4437
RMS 0.1864
DTIME
Entries 474625
Mean 40.73
RMS 19.66

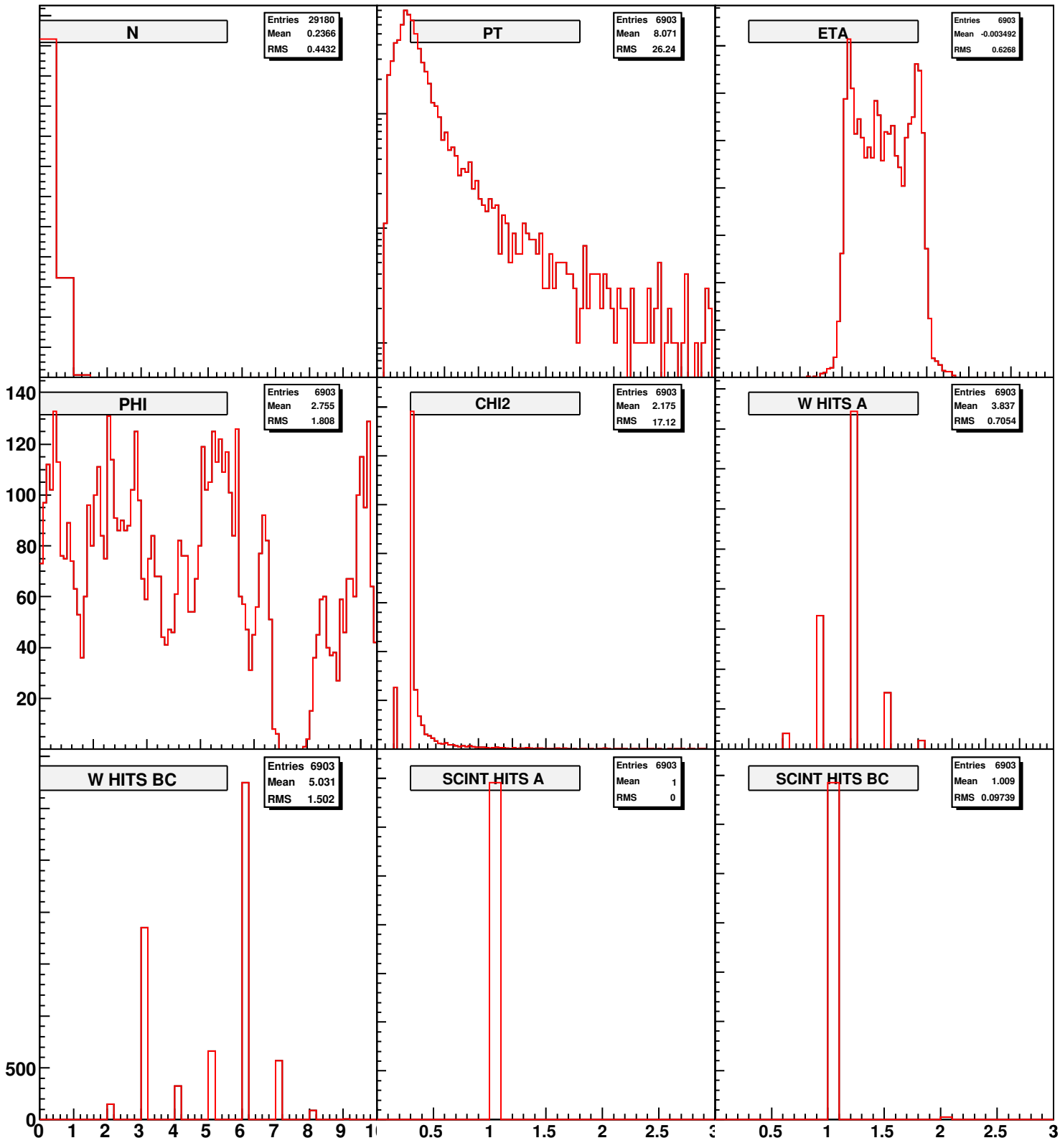
MuonMDT (All)


N
Entries 29180
Mean 9.244
RMS 4.57
Time A layer Wamus
Entries 48618
Mean 17.67
RMS 19.47
Time C layer Wamus
Entries 40041
Mean 21.43
RMS 24.88
500
Time A layer Famus
Entries 100998
Mean 19.12
RMS 20.07
Time B layer Famus
Entries 31222
Mean 15.14
RMS 16.94
Time C layer Famus
Entries 43499
Mean 19.62
RMS 18.22
Layer vs Octant Wamus
Layer vs Octant Famus N
Layer vs Octant Famus S
8
7
6
5
4
3
2
1
0
-1
-0.5
0
0.5
1
1.5
2
2.5
3
3.
0
0.5
1
1.5
2
2.5
3
3.
0
0.5
1
1.5
2
2.5
3
3.5

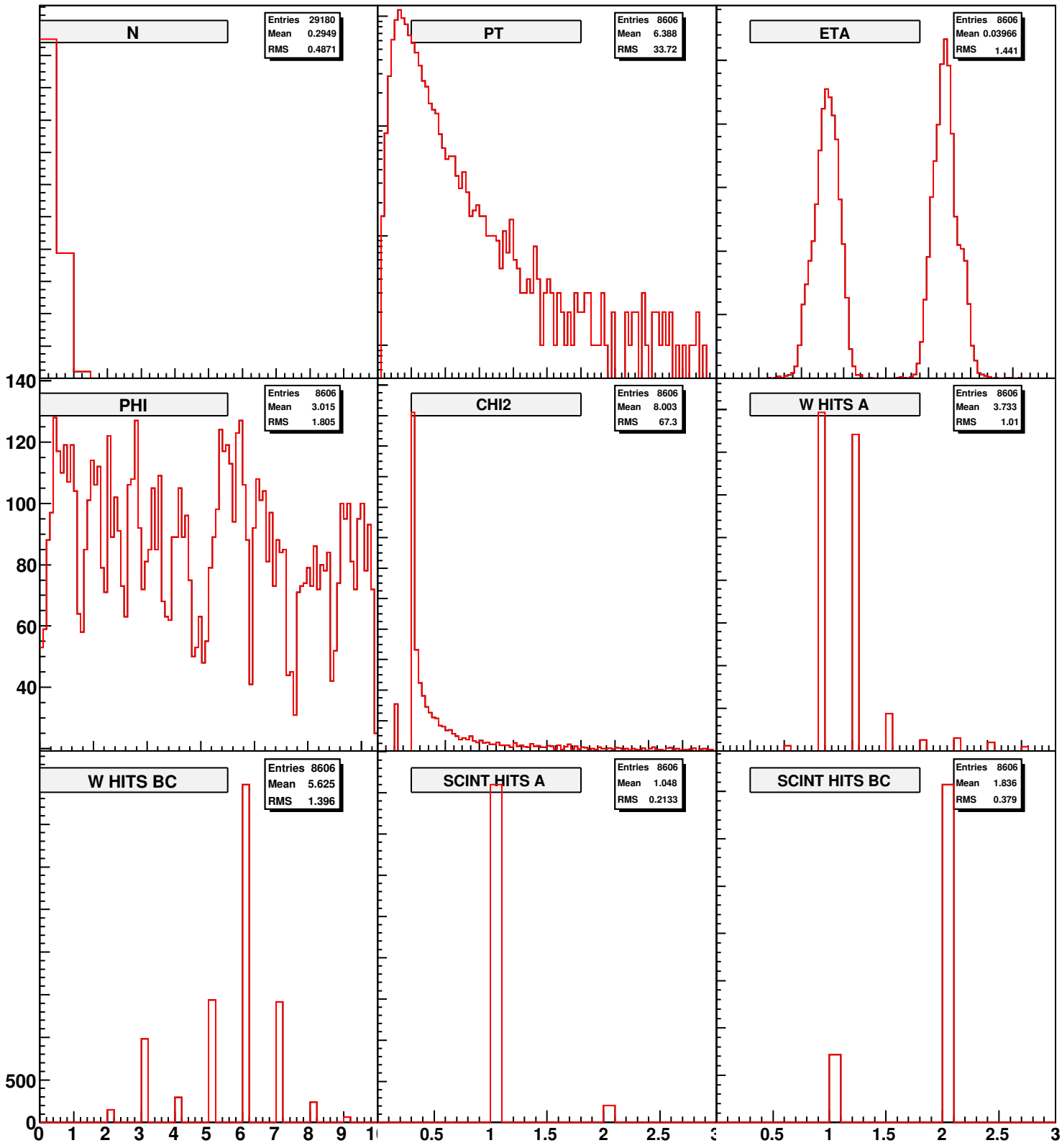
MuonMSC (All)



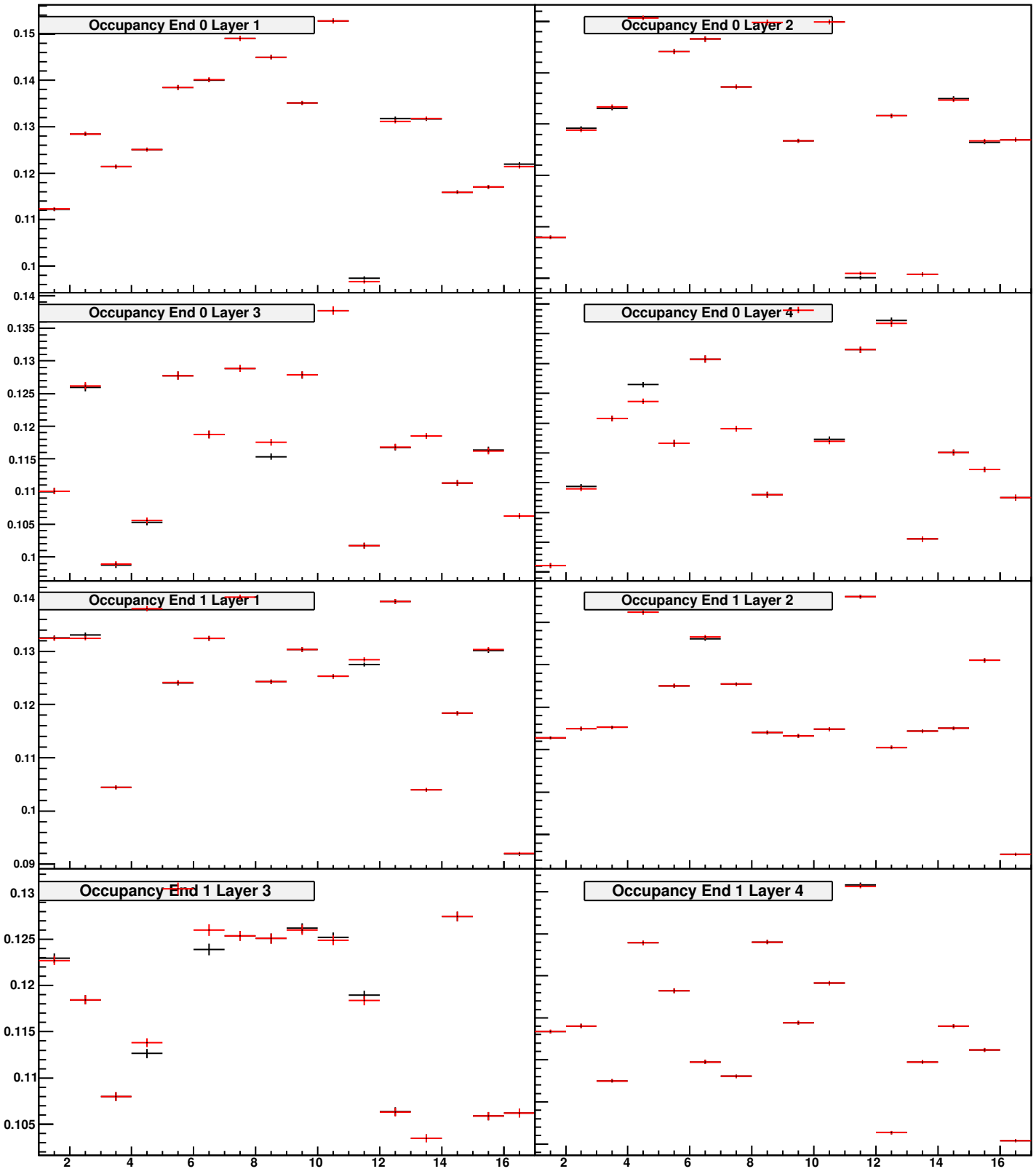
Muon Local Tracks (All)



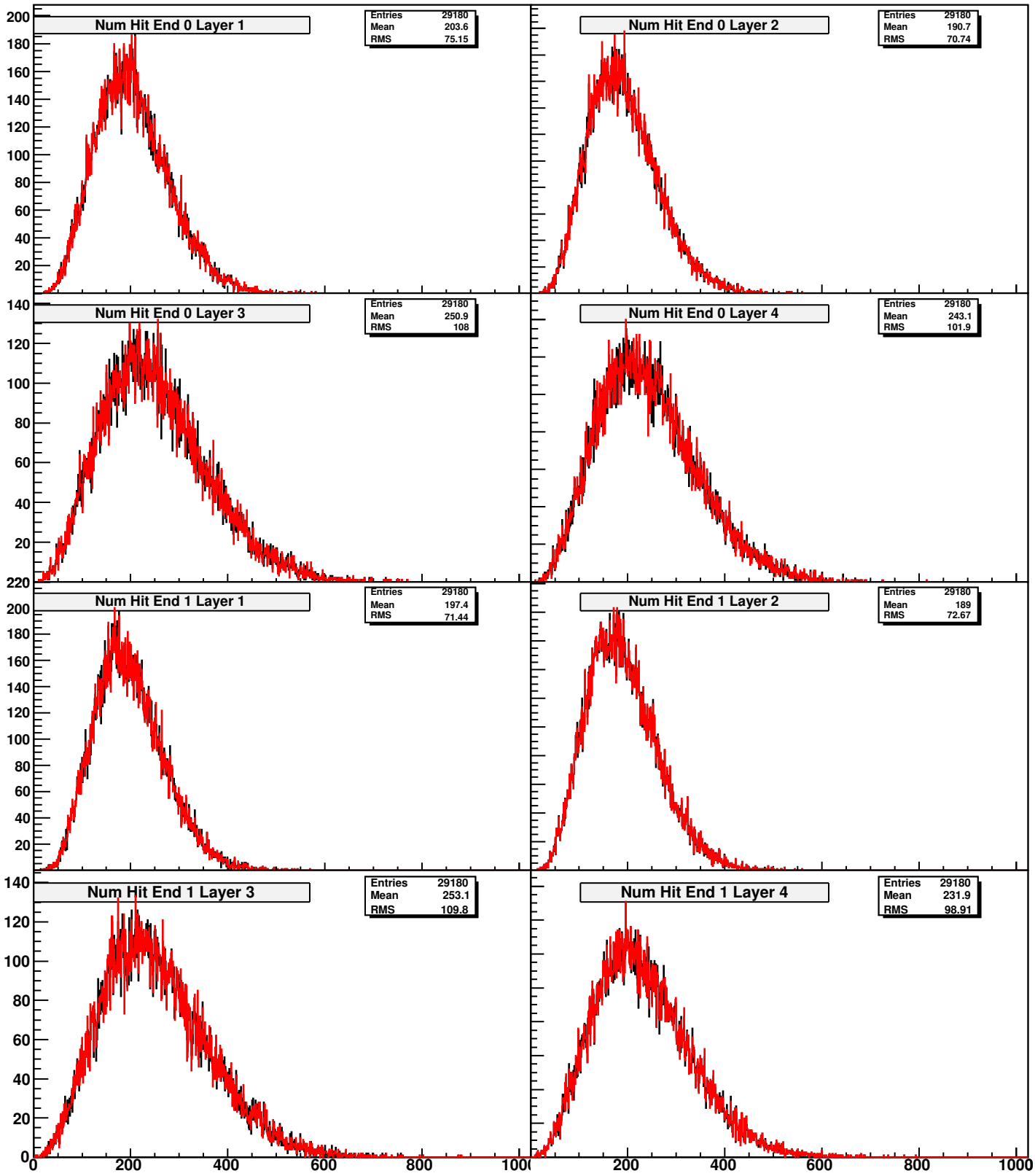
Muon Local Tracks (MediumWamus)



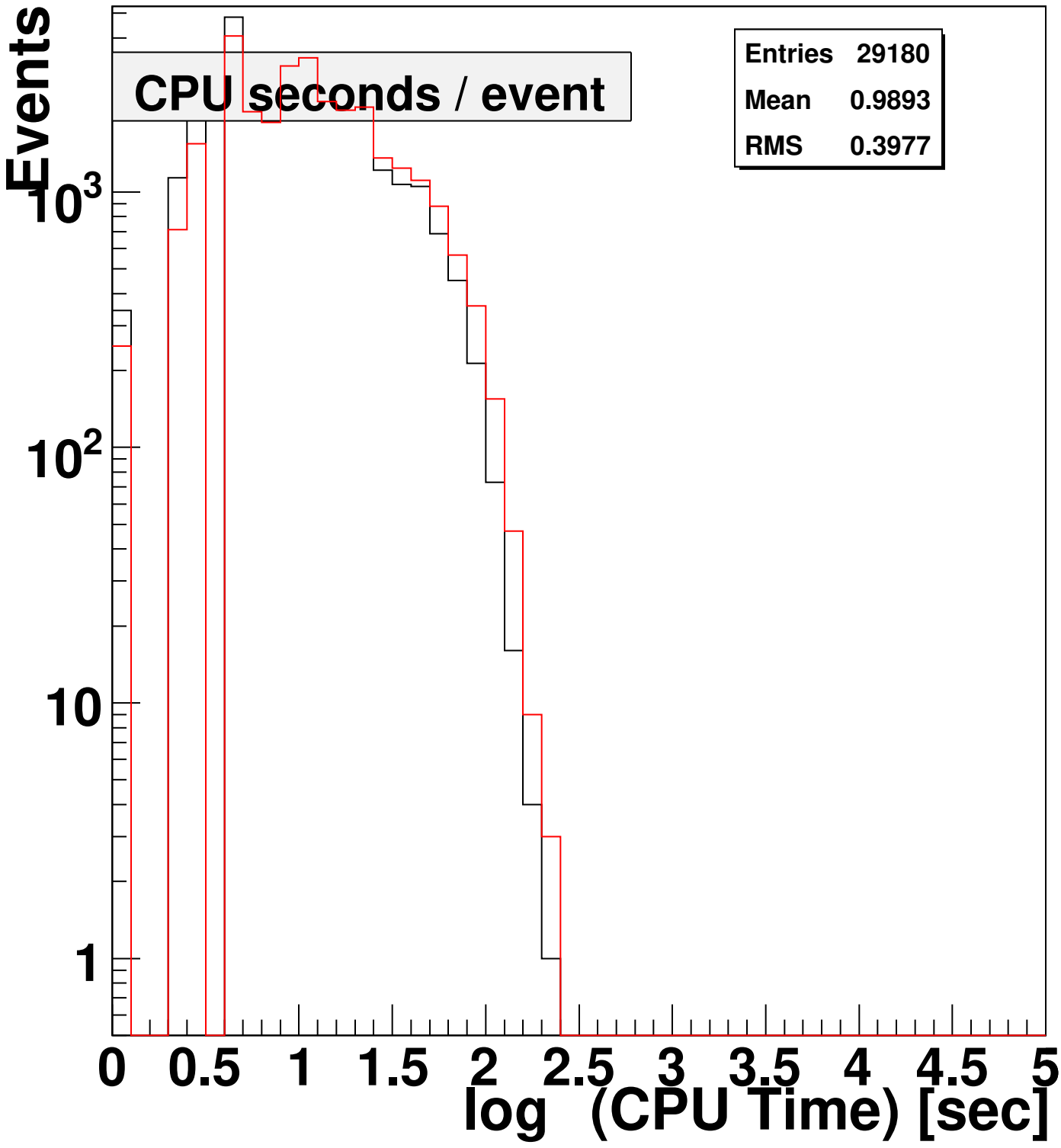
Muon Local Tracks (MediumFamus)



FPS Hit Occupancy (All)



FPS Number of Hits (All)



RECO Performance (Timing)